



MILL-MAX MFG. CORP.

**190 Pine Hollow Road
Oyster Bay, NY 11771
www.mill-max.com**

Mill-Max Mfg. Corp. is a vertically integrated engineering and manufacturing company capable of producing over 100 million interconnect components a week, making us the largest manufacturer of precision-machined interconnect components in North America.

Established in 1971 by Roger Bahnik, Chairman and CEO, Mill-Max has a tradition of exercising total control from raw materials to finished product. Our 150,000 square foot plant, located in Oyster Bay, NY, houses all facilities including: engineering, customer service, sales & marketing, tooling, primary and secondary machining, stamping, gold and tin plating, injection molding, automatic assembly operations and strict process control, monitored by our experienced Quality Control Inspectors.

Mill-Max is particularly distinguished by its use of proprietary high speed turning machines. On our factory floor, hundreds of automated machines turn copper alloy rod and wire at high speed as cutting tools shape each pin. This method enables us to hold tolerances down to ± 0.0005 inches. High-speed turning machines have the flexibility to be easily and quickly re-configured to make pins in different sizes and shapes. This makes the task of producing custom products simple.

In this Design Guide, you will find a wide variety of interconnect components. Our product line includes precision-machined spring-loaded connectors, SIP, DIP, PGA, BGA, and PLCC sockets, board-to-board interconnects and pin headers, PCB pins, receptacles and solder terminals, all available in SMT and through-hole. Cannot find what you need? Remember, Mill-Max specializes in application specific products. Contact one of our technical services engineers to discuss your specific requirements.

Mill-Max products are found in such diversified markets as:

- Automotive
- Backplanes
- Broadcasting Equipment
- Bar Code Scanners
- Cable Television
- Cellular Phones
- Computers
- Connectors
- DC/DC Converters
- Fiber Optics
- Industrial Controls
- Instrumentation
- Medical Cables
- Networking Systems
- Pagers
- Power Supplies
- Scanners
- Smoke Detectors
- Test Equipment
- Telecommunications

From order entry to shipping product, Mill-Max is focused on the total satisfaction of our customers. Through our sales representative organizations, Mill-Max products are sold directly, as well as through a network of 26 authorized distributors located throughout the United States and in various locations worldwide. It's this commitment to excellence that truly makes Mill-Max your source for Maximum Interconnect Solutions.

NOTE

- All dimensions in this design guide are in inches unless otherwise stated.
- All rights reserved. Copyright Mill-Max Mfg. Corp., 2009
- In the interest of improved design and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.
- Orders subject to terms and conditions @ www.mill-max.com

Spring-Loaded Connectors

PAGES 6 - 17

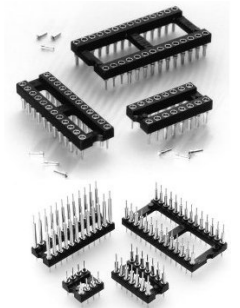


- Surface Mount, Single & Double Row Strips
- Through Hole, Single & Double Row Strips
- Target Connectors for Spring-Loaded Assemblies
- Discrete Spring-Loaded Contacts

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DIP Sockets, Carriers & Headers

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- Quick Selector Chart
- DIP Insulators
- DIP Sockets and Carriers
- Mil-S-83734 Approved
- DIP Headers
- Shrink DIP Sockets and Headers
- Right Angle Display Sockets
- Relay Sockets and Zig-Zag Sockets

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SIP Interconnects, Sockets, Carriers & Headers

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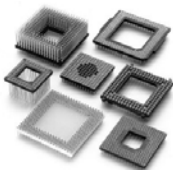


- Quick Selector Chart
- .050" Grid Interconnects
- 2mm Grid Interconnects
- .100" Grid Interconnects
- .200" Grid Interconnects
- .100" Grid SIP Sockets
- .100" Grid SIP Headers

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PGA, BGA, PLCC, Sockets & Headers

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- PGA Sockets and Headers
- BGA Adapter Systems
- PLCC Sockets

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USB, Test Point, TO Sockets and Jumpers

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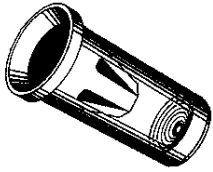


- USB Sockets
- TO Sockets
- Test Point Sockets
- Jumpers

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PIN RECEPTACLES

PAGES 126 - 165



Pin receptacles are individual component lead sockets primarily used for the plugging and unplugging of components on pc boards. Pin receptacles are made by press-fitting a pre-tooled “multi-finger” contact into a precision-machined shell. These receptacles will accept round pins ranging in diameter from .008” to .102”, as well as square & rectangular component leads.

WRAPOST RECEPTACLES

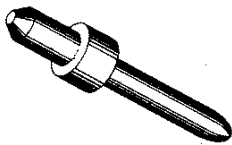
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Wrapost receptacles are individual component lead sockets with .025” or .045” square pin termination for wire wrapped interconnection. Wrapost receptacles will accept round pins ranging in diameter from .015” to .047”, as well as square & rectangular component leads.

PRINTED CIRCUIT PINS

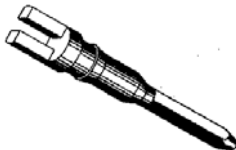
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Printed circuit pins are machined, individual pins used for various plug-in applications and board to board interconnection. They are commonly fastened to pc boards by being press-fit, swaged (riveted) or soldered.

WRAPOST TERMINALS

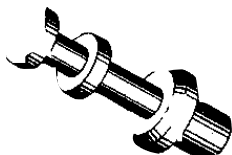
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Wrapost terminals are individual pins with .025” or .045” square termination for wire wrapped interconnection. They are commonly fastened to pc boards by being press-fit, swaged (riveted) or soldered.

SOLDER TERMINALS

PAGES 196 - 212



Solder terminals are machined terminals used primarily for attaching wires to circuit boards. Turret, slotted and pin types are available. They are commonly swaged (riveted) and soldered to pc boards.

GENERAL CONTACT INFORMATION / DATA

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MATERIALS USED BY MILL-MAX

PAGE 227

TERMS, DEFINITIONS AND INDEX

PAGES 228 - 234



Pins & Receptacles:

Pins and receptacle shells are manufactured by precision high speed turning machines. The base materials for these components are copper alloys.

Receptacles are a two piece construction consisting of a plated contact press-fit into a plated shell. The contacts are stamped from beryllium copper strip.

Materials:

Pins & Receptacle Shells:

Brass Alloy 360 UNS C36000 ASTM-B16 (Up to a .250" diameter)

Phosphor Bronze alloy 544 UNS C54400 ASTM-B139 (Up to a .072" diameter)

Tellurium Copper alloy 145 UNS C14500 ASTM-B301 (Up to a .156" diameters)

See page 126 for a complete list of standard available stock diameters.

(For the availability of larger diameter materials contact Technical Services).

Contacts:

Beryllium copper UNS C17200 ASTM-B194 (For most applications)

Beryllium Nickel UNS N03360 (For high temperature applications)

(For individual contact specifications see pages 216-226)
The materials listed above are all RoHS compliant.

Dimensional, Mechanical & Environmental Data:

Standard tolerances for pins and receptacle shells are:

Diameters +/- .002"

Lengths +/- .005"

Angles +/- 2°

Mechanical Life (Durability): Mill-Max receptacles are capable of 1000 minimum insertion/extraction cycles for a broad range of applications. Mating pin size, shape and finish along with application specific variables will affect the life of a contact.

Contact Forces: See individual contact specifications on pages 216-226.

Environmental Data:

- Operating temperature range: -55/+125° C

- Vibration (No electrical discontinuity
Greater than 1 µs): 10-2000 HZ, 15 G

- Shock (No electrical discontinuity
Greater than 1 µs): 50 G

Electrical data is dependent on the contact used in the receptacle. See page 214 for free air current ratings of the contacts.

Platings:

GOLD per ASTM B 488 & MIL-G-45204, Type 1, Code C

SILVER per ASTM B 700, Grade B, Class S

TIN per ASTM B 545, Type 1

TIN/LEAD (93/7) per ASTM B 545

ELECTRO-SOLDER (60/40) per ASTM B 579, Bright

NICKEL per SAE-AMS-QQ-N-290

ELECTROLESS NICKEL per MIL-C-26074

COPPER per SAE-AMS-2418

Connectors:

Connectors are headers, sockets and interconnects. They consist of pins, receptacles or spring pins assembled into thermoplastics or FR-4 epoxy laminate insulator bodies. They are available in DIP, SIP, strip and PGA packages in grids of .050", .070", 2 mm, .100" and .100" interstitial for PGA's.

Electrical Data:

SERIES:	100-700	800	830	850
- Rated current (Amps):	1	3	3	1
- Rated voltage:	100 VRMS/150 VDC			
- Contact resistance:	10 mΩ max.			
- Insulation resistance:	10,000 MΩ min.			
- Dielectric strength:	1000 VRMS min. (700 VRMS min. for series 117 Shrink DIP)			
- Air and creepage distance (inch.):	.028	.033/.028	.020	.016/.020 (.012 for series 117 Shrink DIP)
- Capacitance(pF max):	.8	1	1	1

Electrical data above does not apply to BGA, PLCC, USB or Spring-Loaded connectors. Electrical data for these products can be found on the following pages: BGA – Page 113; PLCC - Page 113; USB - Pages 121 & 122; Spring-Loaded connectors – Pages 6 - 12.

Operating temperature range: -55/+125° C

General tolerances for assembled connector products:

- Lengths: +/- .010"
- Connector Flatness: .005" (up to 1" in length)
- Co-planarity of SMT Connectors: .005" (up to 1" in length)
- For connectors exceeding 1" in length the flatness /co-planarity may exceed .005". Please contact Technical Services for more information.

(Note: Specifications and tolerances are provided wherever possible. Due to the wide variety of connectors Mill-Max offers, the specific tolerances vary from product to product. If you need information regarding the tolerance of a particular part, please contact technical services.)



GENERAL TECHNICAL SPECIFICATIONS

Materials:

Insulator Bodies:

Standard material is glass filled thermoplastic polyester (PCT), self extinguishing, rated UL 94 V-0.

Some surface mount, pin grid array and spring pin connector insulators are molded from high temperature Nylon 46, rated UL 94 V-0.

FR-4 Epoxy laminate is a thermoset material used in custom insulators and high temperature applications. It is especially useful because of its low Temperature Coefficient of Expansion (TCE). See chart below:

TCE for molded insulator	30 ppm/° C
TCE for 4-Layer PCB	13 ppm/° C
TCE for unclad epoxy	12 ppm/° C

The above insulator materials are all suitable for lead free soldering processes up to 260° C.

For complete material properties of plastics used by Mill-Max see page 227.

For inquiries regarding other insulator materials, please contact Technical Services.

Spring Pins:

Spring pins consist of precision-machined brass components assembled together with beryllium copper or stainless steel springs. External components and internal springs are gold plated. Spring pins are designed to be used at mid-stroke. Over compression can cause damage restricting the movement of the plunger.

Materials:

External Components (Body, Piston, Base, Tail):

Brass Alloy 360 UNS C36000 ASTM-B16

Springs:

Beryllium copper UNS C17200 ASTM-B197

Stainless Steel 302

Dimensional, Mechanical & Environmental Data:

Standard tolerances for spring pins at initial height:

Diameters +/- .002"

Lengths +/- .006"

Mechanical life (Durability): 1,000,000 cycles minimum

Force tolerance: +/- 20 g (See individual spring pin data on pages 6- 17 for forces)

Stroke tolerance: +/- .005"

Environmental Data:

- Operating temperature range: -55/+125° C
- Vibration (No electrical discontinuity
Greater than 1 µs): 0-200 HZ, 10G
- Shock (No electrical discontinuity
Greater than 1 µs): 50 g

For complete material properties of metals, platings and plastics used by Mill-Max see page 227.

Where applicable, Mill-Max products and procedures are designed to meet the following standards:

MIL-STD 1916	-	DOD preferred methods for acceptance of product
MIL-STD 202G	-	Test methods for electronic and electrical component parts
MIL-STD 45662	-	Calibration system requirements, or ISO 10012
MIL-F-14072	-	Finishes for ground based electronic equipment
MIL-I-45208	-	Inspection system requirements, or equivalent
MIL-S-83505	-	General specification for sockets (lead, electronic components)
MIL-S-83734	-	General specification for DIP sockets

In the interest of improved design, quality and performance, Mill-Max reserves the right to make changes in its specifications without prior notice.

SPRING-LOADED CONNECTORS

Mill-Max Spring-Loaded Connectors are ideal for a wide range of applications, from portable data acquisition units and mobile communication to medical and military equipment applications. Their unique design can be the perfect answer for many situations, establishing electrical continuity on virtually any surface including problematic vibratory environments. Unlike the fixed mating height created by pins and receptacles, spring-loaded connectors are able to compensate for floating heights and uneven mating surfaces, thus maintaining a reliable electrical connection.

When strategically placed within an assembly and utilized correctly (shielded from over compression and direct side load forces,) miniature spring-loaded connectors can provide a reliable connection up to a million cycles.

Some typical applications include:

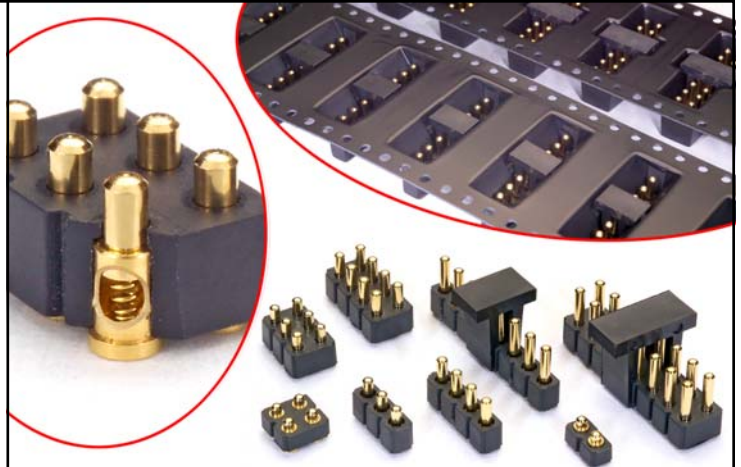
- The internal battery connection in portable instruments, or as the external battery connection for charging these instruments (docking stations.)
- As a method for stacking printed circuit boards in an assembly. Utilizing spring pin connectors is a convenient approach to creating mezzanine-tiered board modules that can be assembled and disassembled quickly.
- Blind-mating applications. The spring pin piston need only make contact with its mating surface. This is typically a land or pad that is larger than the plunger diameter. Compare this to a pin and socket connection where alignment must be more precise for the pin to enter the socket.

Mill-Max Spring-Loaded Connectors can mate to the following surfaces:

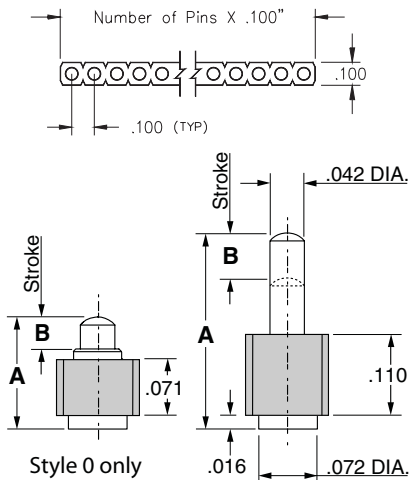
- A conductive input/output pad found on the instrument pack itself.
- A gold-plated land on a circuit board. A hard gold over nickel plated surface is recommended for the mating surface. This is the same as would be used for the printed circuit fingers associated with card edge connectors.
- Individual Mill-Max gold-plated nail head pins which can be soldered to the mating circuit board to serve as targets.
- Mill-Max Target Connectors which provide a large .070" diameter flat, gold-plated circuit path to the board.



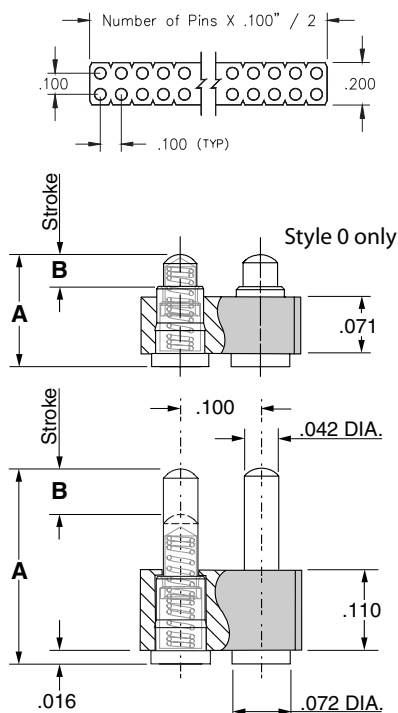
- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 811 & 813 series, contact styles 1 thru 4, are available on 32mm wide carrier tape for pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



SINGLE ROW Series 811



DOUBLE ROW Series 813



Ordering Information

Single Row Series 811

811-22-0XX-30-00X-101

Specify # of contacts

Specify contact style 0-4

01-64

Double Row Series 813

813-22-0XX-30-00X-101

Specify # of contacts

Specify contact style 0-4

04-72

For 811 & 813 Tape & Reel packaging See page 9

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic, rated UL94 V-0

Mechanical:

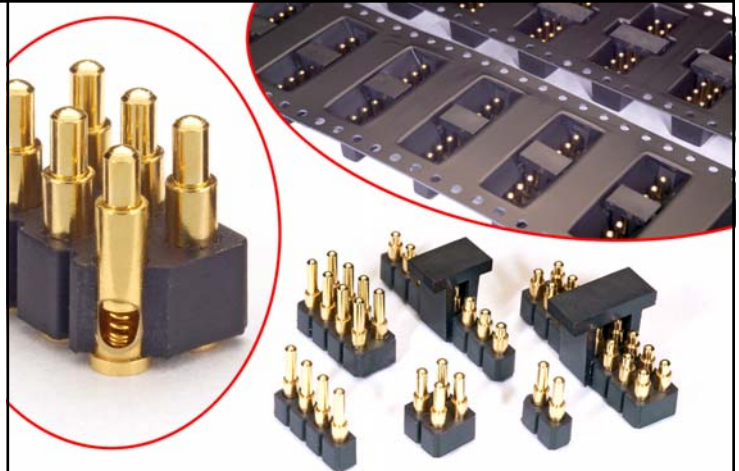
Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles min.
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

Electrical:

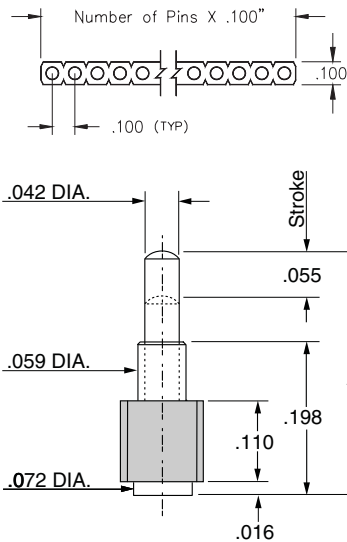
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



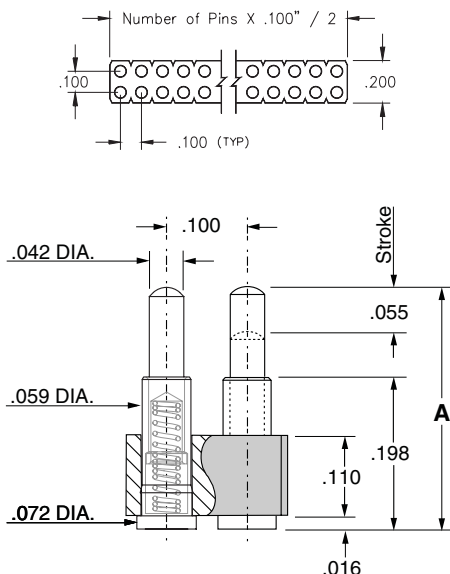
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- Both 812 & 814 series are available on 32mm or 44mm wide carrier tape for automated pick and place assembly per EIA-481. See page 9 for strip lengths available and ordering information.



SINGLE ROW Series 812



DOUBLE ROW Series 814



Ordering Information

Single Row Series 812

812-22-0XX-30-00X-101

Specify # of contacts

Specify contact style 0-9

02-64

Double Row Series 814

814-22-0XX-30-00X-101

Specify # of contacts

Specify contact style 0-9

04-72

For 812 & 814 Tape & Reel packaging See page 9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (.0275): 60 grams
 Durability: 1,000,000 cycles min.
 Coplanarity: .005" (Single Row up to 10 pins; Double Row up to 20 pins) For higher pin counts contact Tech Support.

Electrical:

Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



- Modular contacts for use on .100" grid, available in a height of .288", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke and a .090" max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 819 & 820 series contact strips are designed for placement onto a Ø .082" solder pad prior to reflow soldering.



SINGLE ROW Series 819

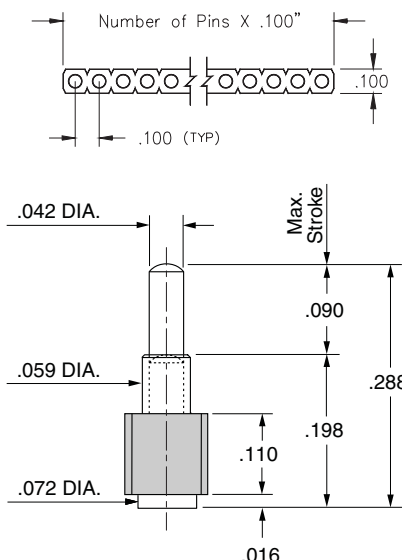


Fig. 1

Ordering Information

Single Row Series 819

819-22-0XX-30-001101

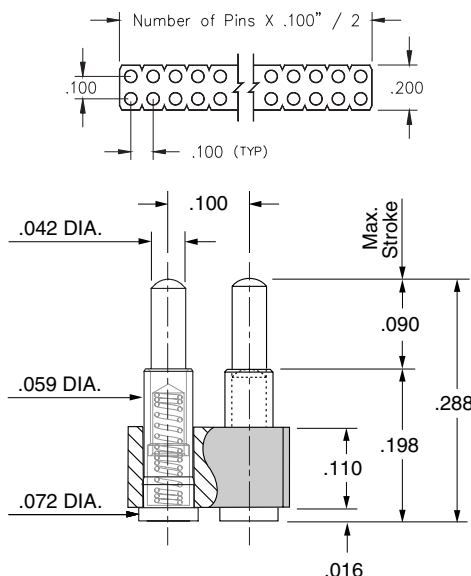
Specify # of contacts → 01-64

Double Row Series 820

820-22-0XX-30-001101

Specify # of contacts → 04-72

DOUBLE ROW Series 820



Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height : 25 grams
 Spring force @ mid stroke : 60 grams
 Durability: 1,000,000 cycles min.

Electrical:

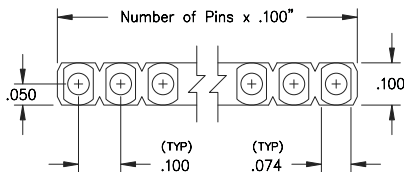
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



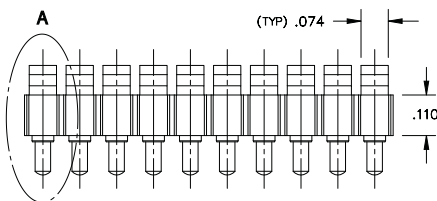
- Modular contacts for use on .100" grid, supplied in single row contact strips. Piston action is parallel to the board surface.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid. stroke & .090" max. stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 810 series contact strips are designed for manual placement onto solder pads.



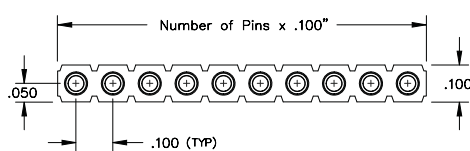
Single Row Series 810



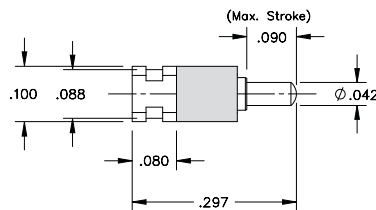
TOP VIEW



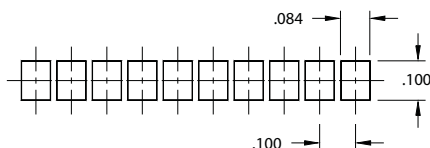
FRONT VIEW



DETAIL 'A'



Suggested P.C.B. FOOTPRINT



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Ordering Information

Series 810

Single Row Surface Mount

810-22-0__-40-001101

Specify # of pins

01-10

*For Electrical,
Mechanical & Environmental
Data, See pg. 4.1*

*For RoHS compliance
select plating code.*

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel.

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams

Spring force @ mid stroke: 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

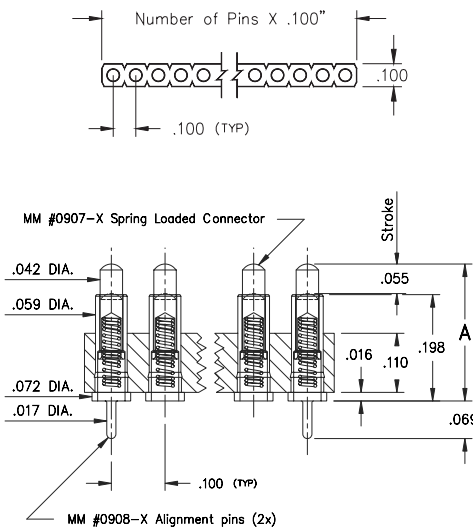
Capacitance: 1pF max.



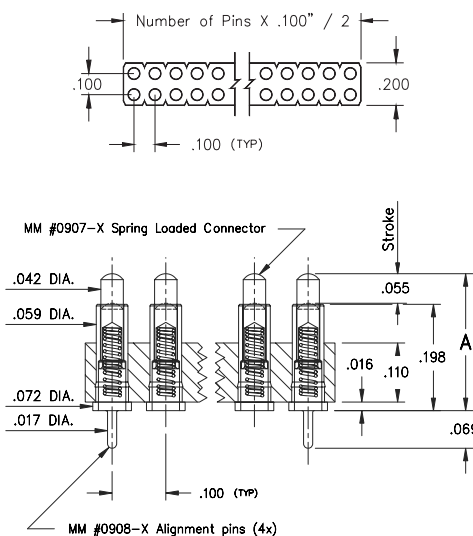
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275 mid stroke & .055 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 812 & 814 series contact strips are designed for manual placement into Ø .023±.003" plated-throughs in the circuit board prior to intrusive reflow soldering.



Single Row Series 812...01X101



Double Row Series 814...01X101



Ordering Information

Single Row Series 812...01X101

812-22-0XX-30-01X-101

Specify # of contacts → 03-64
 Specify contact style 0-9

Double Row Series 814...01X101

814-22-0XX-30-01X-101

Specify # of contacts → 06-72
 Specify contact style 0-9

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles min.

Electrical:

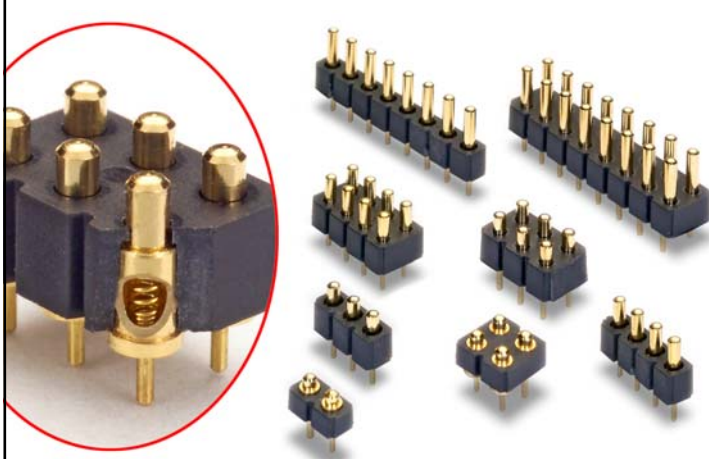
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continuous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



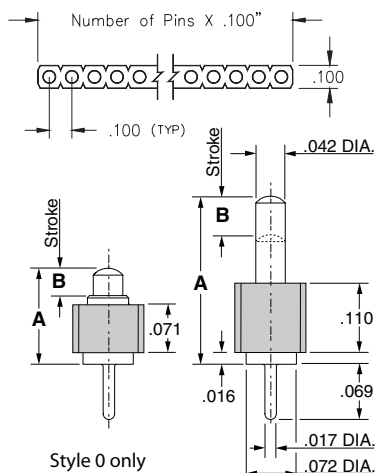
Ordering Information for Series 811/812/813/814 in Carrier Tape

Single Row Series 811 811-22-0XX-30-00X-191 Specify contact style 0-4 Specify # of contacts 02 - 08 (32mm wide tape, 400 parts per 13" reel)	Double Row Series 813 813-22-0XX-30-00X-191 Specify contact style 0-4 Specify # of contacts 04 - 16 (32mm wide tape, 400 parts per 13" reel)
Single Row Series 811 811-22-0XX-30-00X-191 Specify contact style 1-4 Specify # of contacts 09 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 813 813-22-0XX-30-00X-191 Specify contact style 1-4 Specify # of contacts 18 - 24 (44mm wide tape, 200 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X-191 Specify contact style 0-2 Specify # of contacts 02 - 08 (32mm wide tape, 400 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X-191 Specify contact style 0-2 Specify # of contacts 04 - 16 (32mm wide tape, 400 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X-191 Specify contact style 0-2 Specify # of contacts 09 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X-191 Specify contact style 0-2 Specify # of contacts 18 - 24 (44mm wide tape, 200 parts per 13" reel)
Single Row Series 812 812-22-0XX-30-00X-191 Specify contact style 3-9 Specify # of contacts 02 - 12 (44mm wide tape, 200 parts per 13" reel)	Double Row Series 814 814-22-0XX-30-00X-191 Specify contact style 3-9 Specify # of contacts 04 - 24 (44mm wide tape, 200 parts per 13" reel)

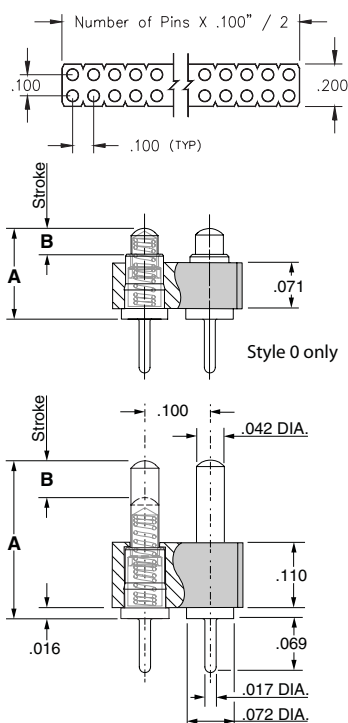
- Modular contacts for use on .100" grid, available in five heights from .137" to .236", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a long stroke relative to the low profile of the assembly.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 821 & 823 series contact strips are designed for manual placement into $\varnothing.022 \pm .003$ " plated-thru-holes in the circuit board prior to hand, wave or reflow soldering.



SINGLE ROW Series 821



DOUBLE ROW Series 823



Ordering Information

Single Row Series 821

821-22-0XX-10-00X-101

Specify # of contacts → 02-64 Specify contact style 0-4

Double Row Series 823

823-22-0XX-10-00X-101

Specify # of contacts → 04-72 Specify contact style 0-4

CONTACT STYLE	INITIAL HEIGHT A	MAX. STROKE B
0	.137	.039
1	.177	.045
2	.197	.055
3	.217	.055
4	.236	.055

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel
 Spring: Beryllium copper plated 10μ" gold
 Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

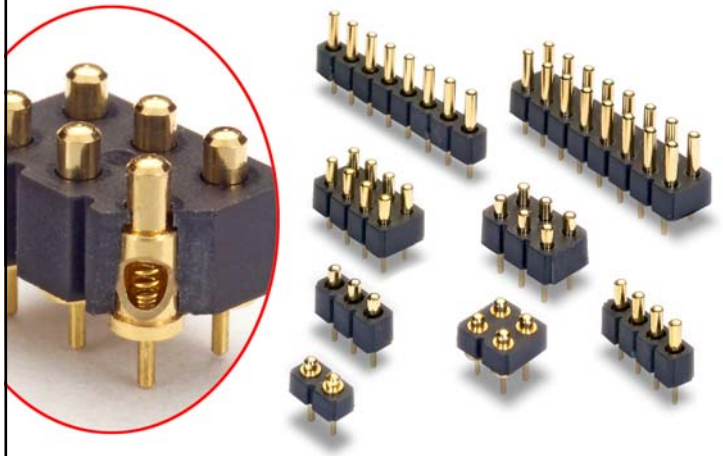
Spring force @ initial height (A): 25 grams
 Spring force @ mid stroke (B/2): 60 grams
 Durability: 1,000,000 cycles min.

Electrical:

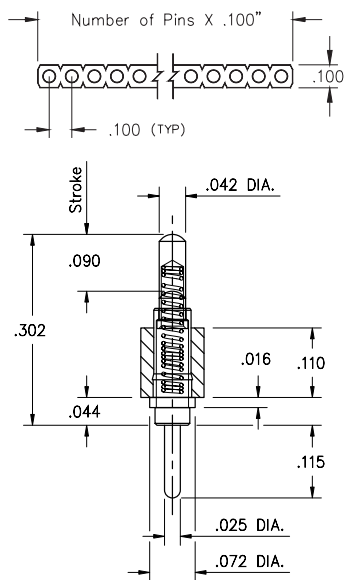
Voltage rating: 100Vrms/150Vdc
 Current rating: 2A (continous), 3A (peak) per contact
 Contact resistance: 20mΩ max.
 Insulation resistance: 10,000MΩ min.
 Dielectric strength: 700Vrms min.
 Capacitance: 1pF max.



- Modular contacts for use on .100" grid, available in a height of .302", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045 mid stroke & .090 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 825 & 827 series contact strips are designed for manual placement into $\varnothing .030 \pm .003$ " plated-thru-holes in the circuit board prior to hand, wave or reflow soldering.



SINGLE ROW Series 825



Ordering Information

Fig. 1

Single Row Series 825

825-22-0XX-10-001101

Specify # of contacts → 02-64

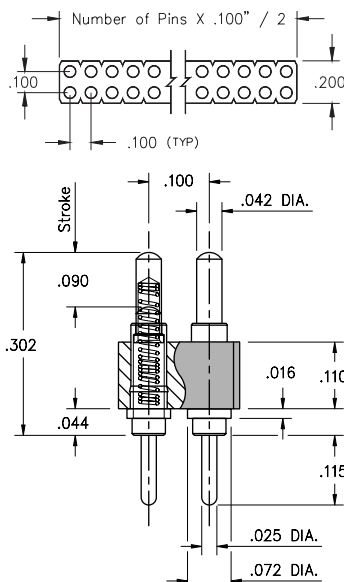
Fig. 2

Double Row Series 827

827-22-0XX-10-001101

Specify # of contacts → 04-72

DOUBLE ROW Series 827



Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel

Spring: Beryllium copper plated 10 μ " gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (B/2): 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20m Ω max.

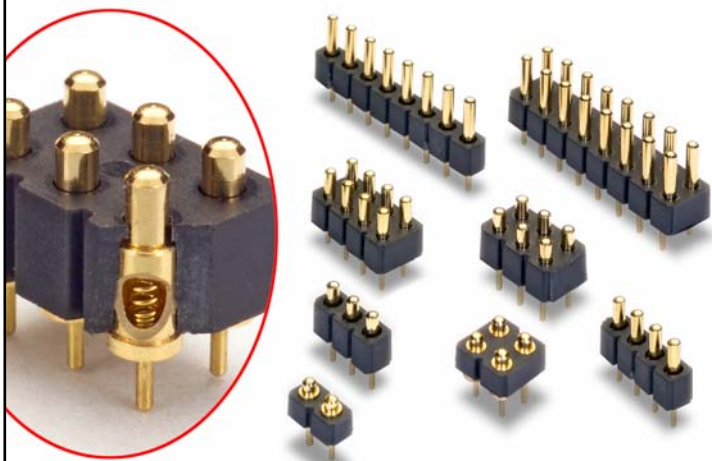
Insulation resistance: 10,000M Ω min.

Dielectric strength: 700Vrms min.

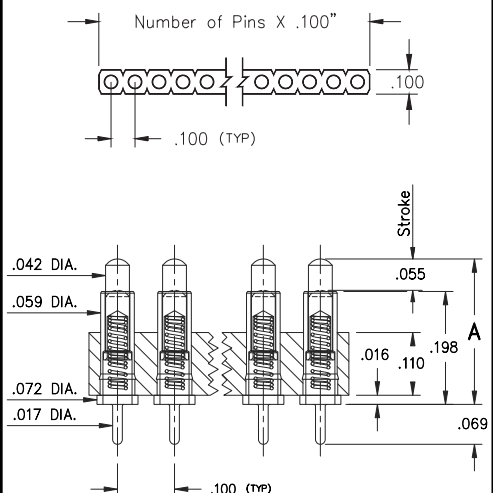
Capacitance: 1pF max.

RoHS
2002/95/EC

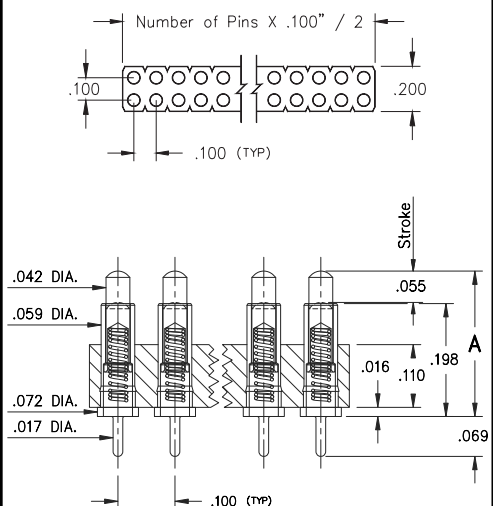
- Modular contacts for use on .100" grid, available in ten heights from .255" to .430", supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275 mid stroke & .055 max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 816 & 818 series contact strips are designed for manual placement into Ø .023±.003" plated-throughs in the circuit board prior to intrusive reflow soldering.



Single Row Series 816...00X101



Double Row Series 818...00X101



Ordering Information

Single Row Series 816...00X101

816-22-0XX-10-00X101

Specify # of contacts

Specify contact style 0-9

02-64

Double Row Series 818...00X101

818-22-0XX-10-00X101

Specify # of contacts

Specify contact style 0-9

04-72

CONTACT STYLE	INITIAL HEIGHT A	CONTACT STYLE	INITIAL HEIGHT A
0	.255	5	.350
1	.275	6	.370
2	.295	7	.390
3	.315	8	.410
4	.335	9	.430

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (B/2): 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

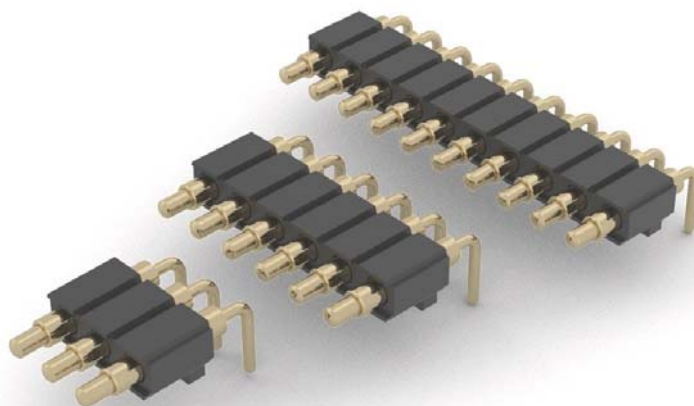
Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

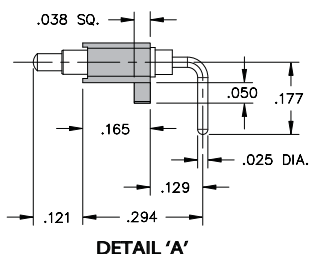
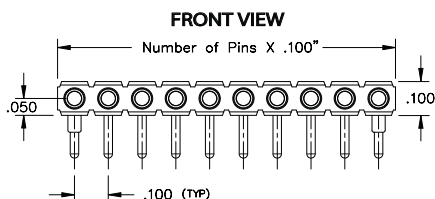
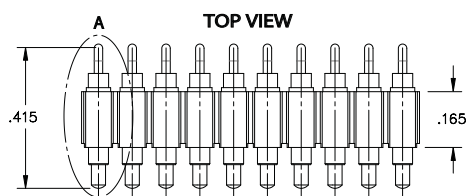
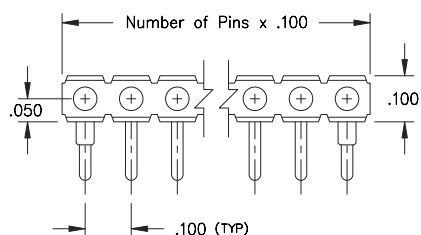
Capacitance: 1pF max.



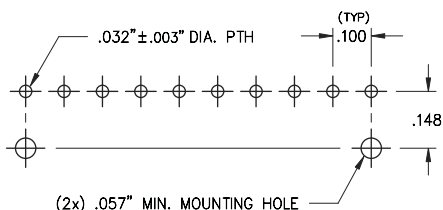
- Modular contacts for use on .100" grid, available in a height of .294", supplied in single contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .045" mid stroke and .090" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for wave and reflow soldering processes.
- 829 series contact strips are designed for manual placement into $\varnothing .032 \pm .003$ " plated-thru-holes in the circuit board prior to hand, wave or reflow soldering.



Single Row Series 829



Suggested P.C.B Footprint



Ordering Information

Series 829

Single Row Right Angle

829-22-0__-20-001101

Specify # of pins

02-10

*For Electrical,
Mechanical & Environmental
Data, See pg. 4.1*

*For RoHS compliance
select plating code.*

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20μ" gold over 100μ" nickel.

Spring: Beryllium copper plated 10μ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height: 25 grams

Spring force @ mid stroke: 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

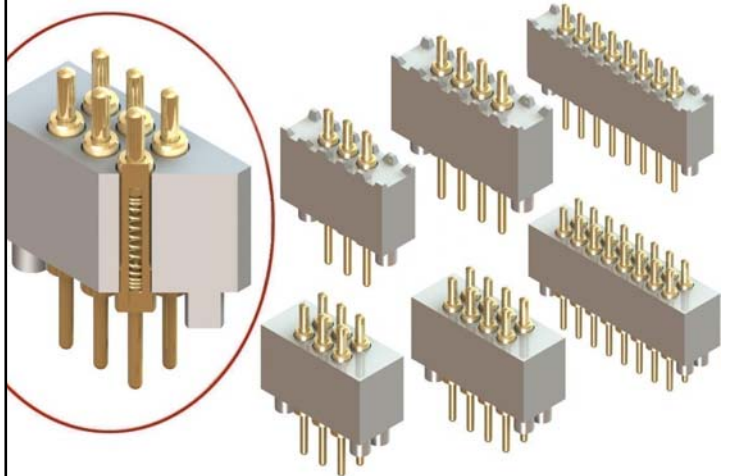
Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

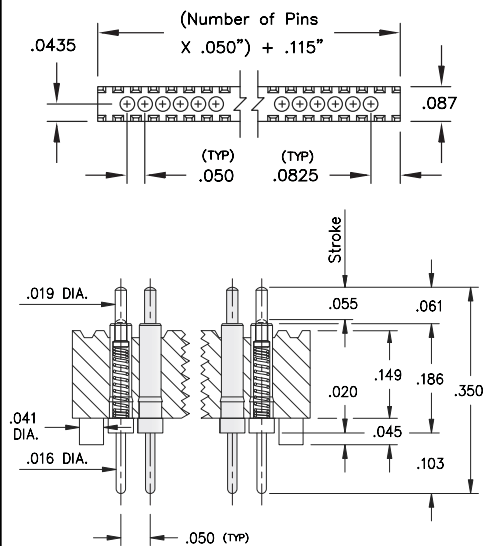
Capacitance: 1pF max.



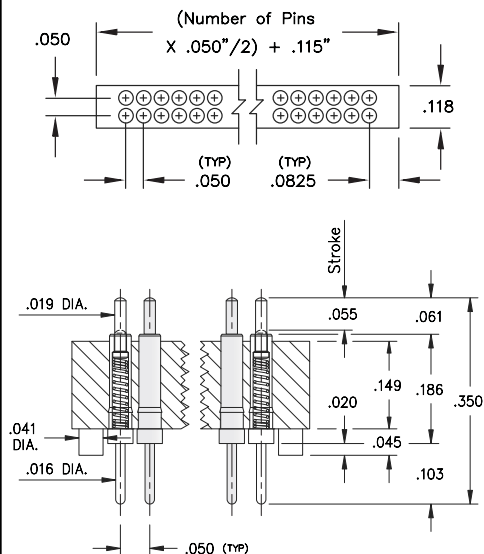
- Modular contacts for use on .050" grid, supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275" mid stroke & .055" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 854 & 855 series contact strips are designed for manual placement into $\varnothing .023 \pm .003$ " plated-through holes in the circuit board.



Single Row Series 854



Double Row Series 855



Ordering Information

Series 854

Single Row Through Hole Mount

854-22-0__-10-001101

Specify # of pins $\rightarrow$ 02-20

Series 855

Double Row Through Hole Mount

855-22-0__-10-001101

Specify # of pins $\rightarrow$ 04-40

*For Electrical,
 Mechanical & Environmental
 Data, See pg. 4.1*

*For RoHS compliance
 select $\diamond$ plating code.*

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20 μ " gold over 100 μ " nickel.

Spring: Beryllium copper plated 10 μ " gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (B/2): 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20m Ω max.

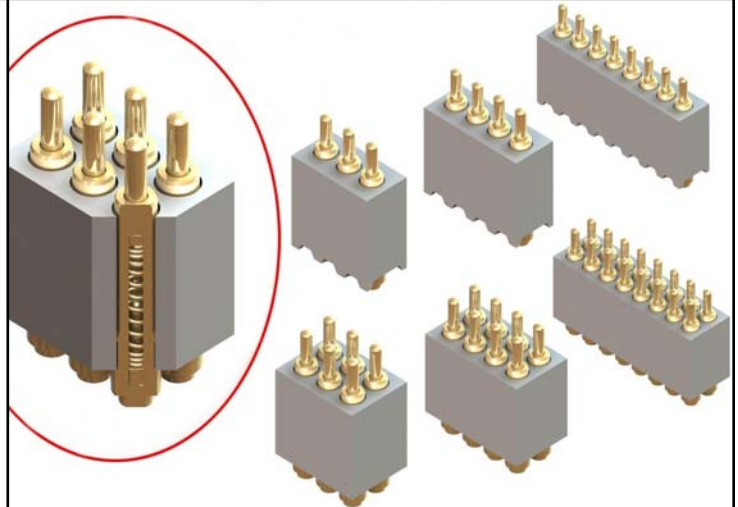
Insulation resistance: 10,000M Ω min.

Dielectric strength: 700Vrms min.

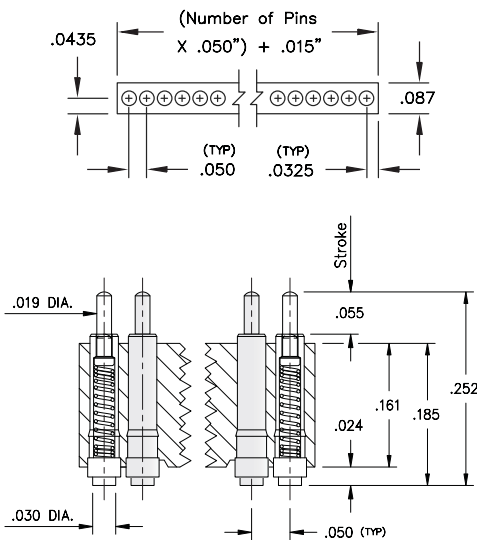
Capacitance: 1pF max.



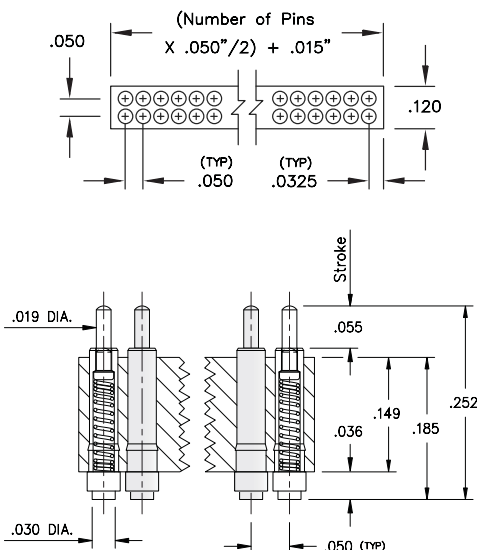
- Modular contacts for use on .050" grid, supplied in single and double row contact strips.
- Precision-machined piston / base and gold plated components assure a 1,000,000 min. cycle life.
- Pistons have a .0275" mid stroke & .055" max stroke.
- Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak.
- High temperature thermoplastic insulators are suitable for surface mount processes.
- 854 & 855 series contact strips are designed for manual placement onto .040" Ø solder pads.



Single Row Series 854



Double Row Series 855



Ordering Information

Series 854

Single Row Surface Mount

854-22-0__-30-001101

Specify # of pins

02-20

Series 855

Double Row Surface Mount

855-22-0__-30-001101

Specify # of pins

04-40

*For Electrical,
 Mechanical & Environmental
 Data, See pg. 4.1*

*For RoHS compliance
 select plating code.*

Technical Specifications

Materials:

Contact piston & Base: Machined copper alloy plated 20µ" gold over 100µ" nickel.

Spring: Beryllium copper plated 10µ" gold

Insulator: High temp. thermoplastic rated UL94 V-0

Mechanical:

Spring force @ initial height (A): 25 grams

Spring force @ mid stroke (B/2): 60 grams

Durability: 1,000,000 cycles min.

Electrical:

Voltage rating: 100Vrms/150Vdc

Current rating: 2A (continuous), 3A (peak) per contact

Contact resistance: 20mΩ max.

Insulation resistance: 10,000MΩ min.

Dielectric strength: 700Vrms min.

Capacitance: 1pF max.



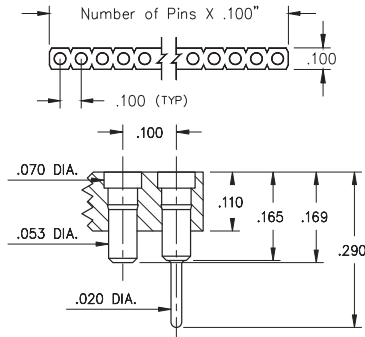


Fig. 1

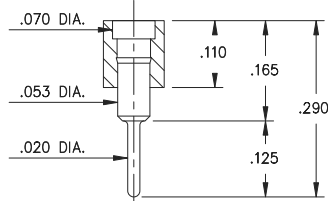


Fig. 2

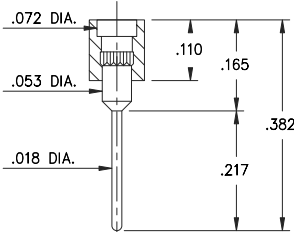


Fig. 3

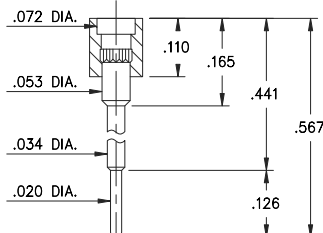


Fig. 4

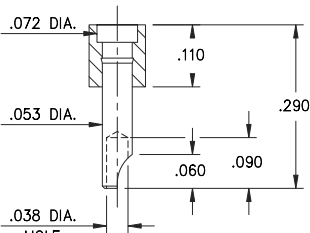


Fig. 5

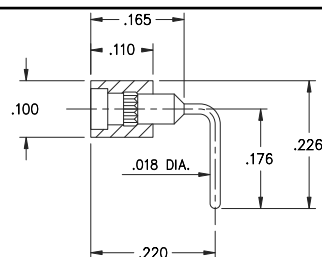
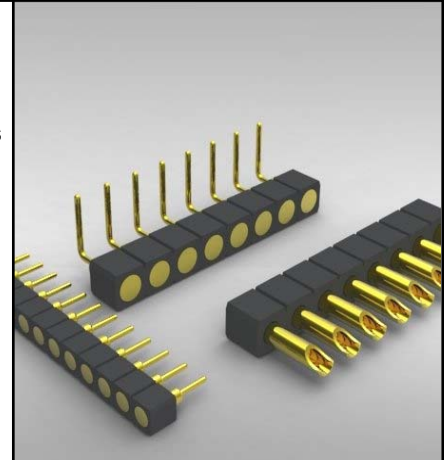


Fig. 6

- Series 319, 330 and 399 single row strips may be cut to any length.
- Spring Target connectors present a large flat surface for making tangent connections to our standard .042" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.
- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 185 for details.
- Insulators are high temp. thermoplastic.



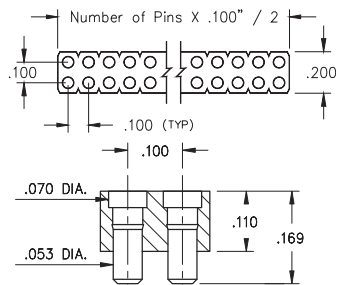
Ordering Information

Fig. 1	Series 319...041	SMT w/ Alignment Pins
	319-10-1__-30-041000	Specify # of pins → 01-64
Fig. 2	Series 319...001	Standard Solder Tails
	319-10-1__-00-001000	Specify # of pins → 01-64
Fig. 3	Series 319...002	Long Solder Tails
	319-10-1__-00-002000	Specify # of pins → 01-64
Fig. 4	Series 319...005	Elevated Solder Tails
	319-10-1__-00-005000	Specify # of pins → 01-64
Fig. 5	Series 330...240	Solder Cups
	330-10-1__-10-240000	Specify # of pins → 01-64
Fig. 6	Series 399...008	Right Angle Solder Tails
	399-10-1__-10-008000	Specify # of pins → 01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4



PLATING CODE =	10			
Pin Plating	10 μ" Au			



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

Fig. 1

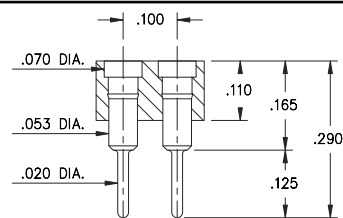


Fig. 2

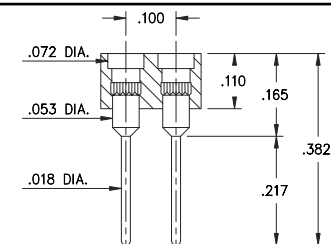


Fig. 3

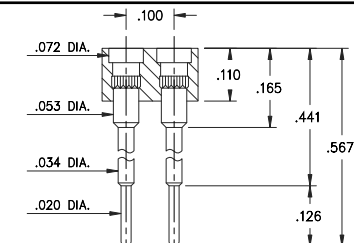


Fig. 4

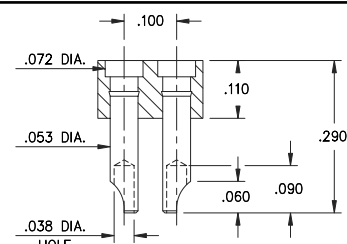


Fig. 5

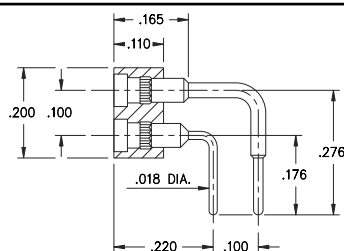


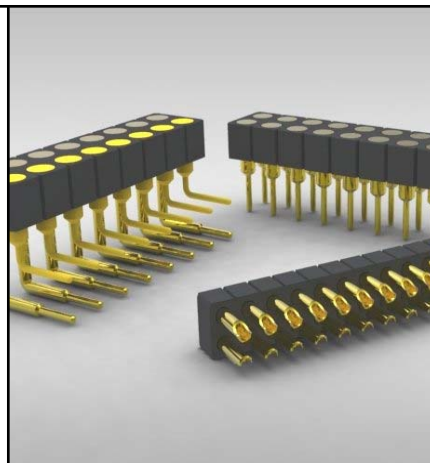
Fig. 6

- Series 419, 430 and 499 double row strips may be cut to any length.

- Spring Target connectors present a large flat surface for making tangent connections to our standard .042" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.

- Target connectors use MM #1938, #1940, #1941, #1942 and #3024 pins. See page 185 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 419...041	Surface Mount
	419-10-2_ _-30-041000	Specify # of pins → 04-64
Fig. 2	Series 419...001	Standard Solder Tails
	419-10-2_ _-00-001000	Specify # of pins → 04-64
Fig. 3	Series 419...002	Long Solder Tails
	419-10-2_ _-00-002000	Specify # of pins → 04-64
Fig. 4	Series 419...005	Elevated Solder Tails
	419-10-2_ _-00-005000	Specify # of pins → 04-64
Fig. 5	Series 430...240	Solder Cups
	430-10-2_ _-10-240000	Specify # of pins → 04-64
Fig. 6	Series 499...008	Right Angle Solder Tails
	499-10-2_ _-10-008000	Specify # of pins → 04-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4



PLATING CODE =	10			
Pin Plating	10 μ" Au			

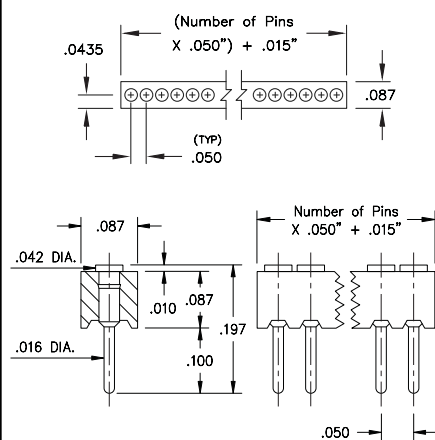
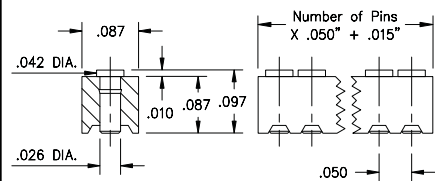
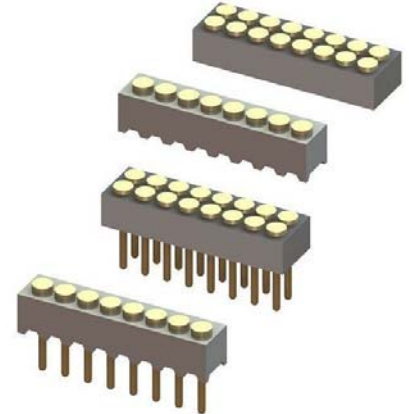


Fig. 1

- Series 856, 857 single and double row strips may be cut to any length.
- Spring Target connectors present a large flat surface for making tangent connections to our standard .019" dia spring pin plungers. The target connectors provide an excellent gold plated conductive path back to the board mounted spring pin connector.
- Target connectors use MM #1933 and #1935 pins. See page 180 for details.
- Insulators are high temp. thermoplastic.



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

Fig. 2

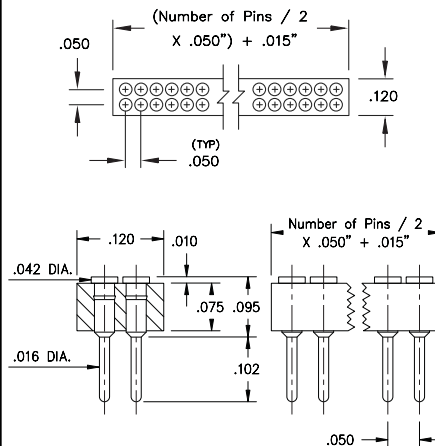
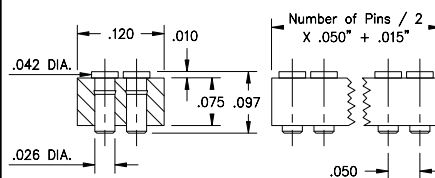


Fig. 3



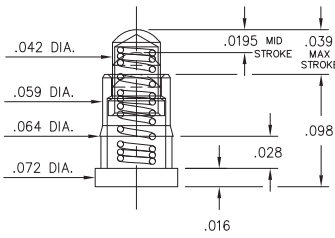
Coplanarity .005". For Pin Counts >40 positions consult Technical Support.

Fig. 4

Ordering Information

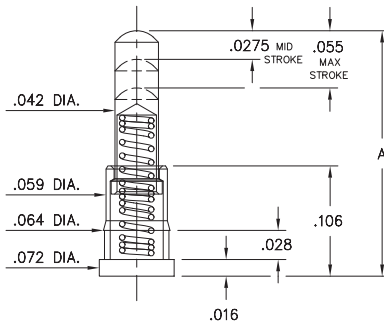
Fig. 1	Series 856...051	Standard Solder Tails
	856-10-0_ -10-051000	Specify # of pins → 01-20
Fig. 2	Series 856...051	Surface Mount
	856-10-0_ -30-051000	Specify # of pins → 02-20
Fig. 3	Series 857...051	Standard Solder Tails
	857-10-0_ -10-051000	Specify # of pins → 04-40
Fig. 4	Series 857...051	Surface Mount
	857-10-0_ -30-051000	Specify # of pins → 04-40
For Electrical, Mechanical & Environmental Data, See pg. 4 RoHS 2002/95/EC		
PLATING CODE = 10		
Pin Plating 10 μ" Au		

0900-0



0900-0-00-00-00-00-11-0
Short Stroke, Surface mount
Lowest profile

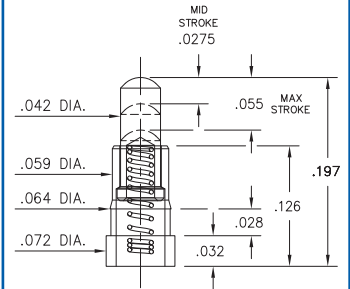
0900-1⇒4



0900-X-00-00-00-00-11-0
Standard Stroke, Surface mount
Low profile

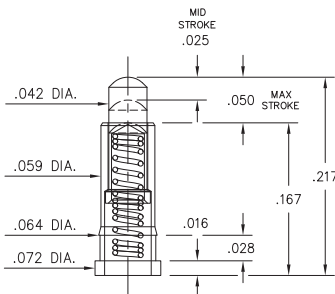
Basic Part Number	Length A
0900-1	.177
0900-2	.197
0900-3	.217
0900-4	.236

0934



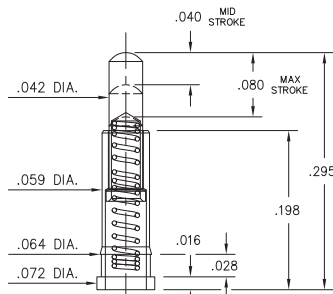
0934-0-15-20-74-14-26-0
Standard Stroke
Surface mount

0936



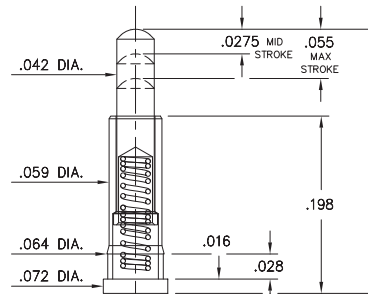
0936-0-15-20-75-14-11-0
Standard Stroke
Surface mount

0928



0928-0-15-20-77-14-11-0
Long Stroke
Surface mount

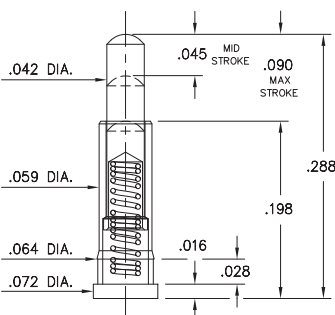
0907-0⇒9



0907-X-15-20-75-14-11-0
Standard Stroke, Surface mount
High profile

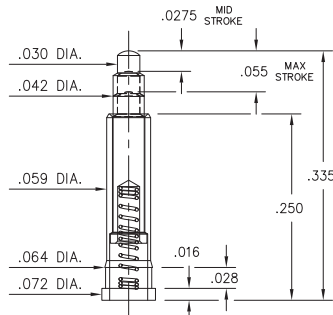
Basic Part Number	Length A
0907-0	.255
0907-1	.275
0907-2	.295
0907-3	.315
0907-4	.335
0907-5	.350
0907-6	.370
0907-7	.390
0907-8	.410
0907-9	.430

0913



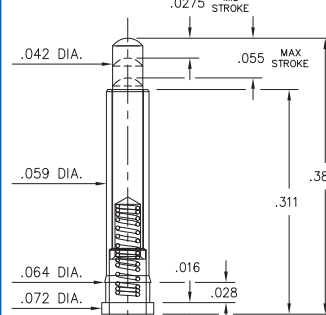
0913-0-15-20-77-14-11-0
Long Stroke
Surface mount

0925



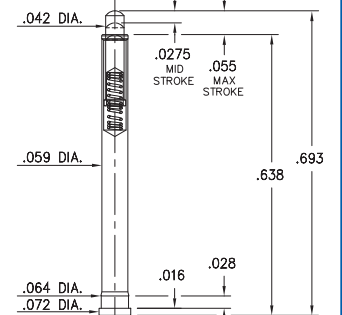
0925-0-15-20-73-14-26-0
Standard Stroke
Surface mount

0927



0927-0-15-20-75-14-11-0
Standard Stroke
Surface mount

0905



0905-0-00-00-00-00-11-0
Standard Stroke, Surface mount
Highest Profile

ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - XX - 0

Spring Number

MATERIAL SPECIFICATIONS:

SLEEVE & PLUNGER MATERIAL: Copper Alloy
SPRING MATERIAL: Beryllium Copper
SLEEVE & PLUNGER FINISH: 20 μ" Gold over Nickel
SPRING FINISH: 10 μ" Gold over Nickel
DIMENSION IN INCHES:
TOLERANCES ON: LENGTHS: ±.006
 DIAMETERS: ±.002
 ANGLES: ± 2°



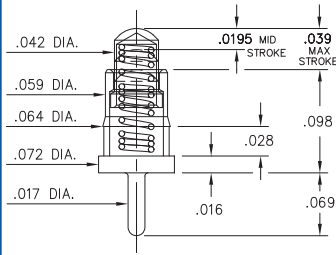
MECHANICAL & ELECTRICAL SPECIFICATIONS:

DURABILITY: 1,000,000 cycles
CURRENT RATING: 2A continuous, 3A peak
CONTACT RESISTANCE: 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
73	.0275	.055	60 g	25 g
74	.0275	.055	50 g	15 g
75	.0275	.055	60 g	25 g
77	.045	.090	60 g	25 g

73, 74, 75, 77 Springs are not Interchangeable

0906-0

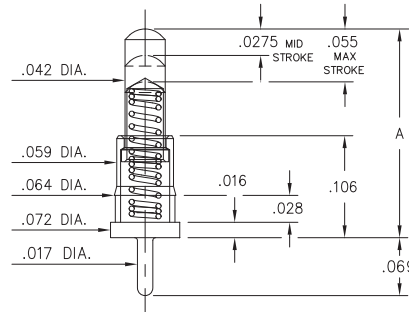


0906-0-15-20-76-14-11-0

Short Stroke

Solder mount in .018 min. mounting hole

0906-1⇒4



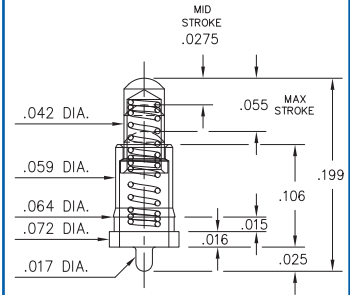
0906-X-15-20-75-14-11-0

Standard Stroke

Solder mount in .018 min. mounting hole

Basic Part Number	Length A
0906-1	.177
0906-2	.197
0906-3	.217
0906-4	.236

0930

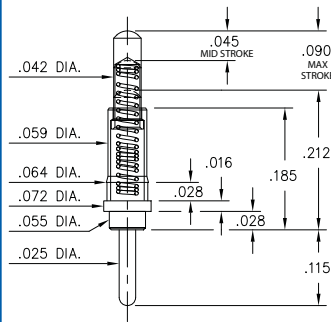


0930-0-15-20-75-14-11-0

Standard Stroke

Solder Mount in .018 min. mounting hole

0914

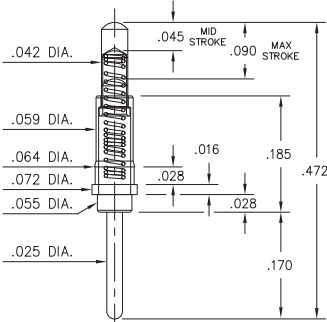


0914-0-15-20-77-14-11-0

Long Stroke

Solder mount in .027 min. mounting hole

0932

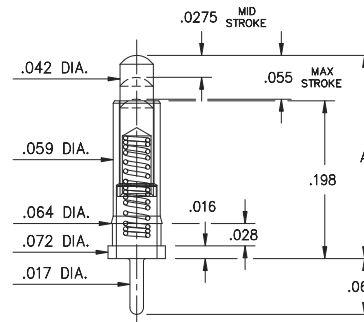


0932-0-15-20-77-14-11-0

Long Stroke

Solder Mount in .027 min. mounting hole

0908-0⇒9



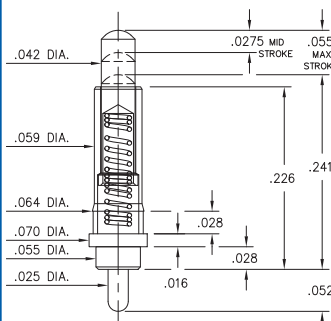
0908-X-15-20-75-14-11-0

Standard Stroke

Solder mount in .018 min. mounting hole

Basic Part Number	Length A
0908-0	.255
0908-1	.275
0908-2	.295
0908-3	.315
0908-4	.335
0908-5	.350
0908-6	.370
0908-7	.390
0908-8	.410
0908-9	.430

0901

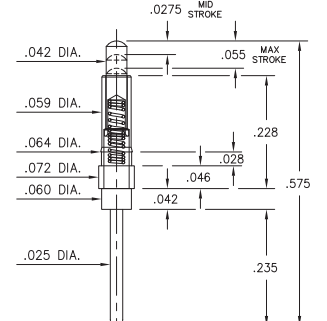


0901-0-00-00-00-00-11-0

Standard Stroke

Solder mount in .027 min. mounting hole

0929

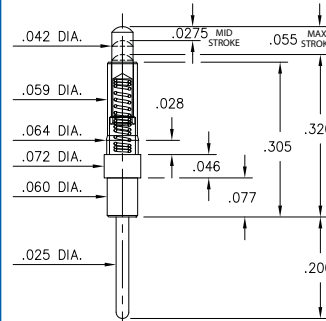


0929-0-15-20-75-14-11-0

Standard Stroke

Solder Mount in .027 min. mounting hole

0922

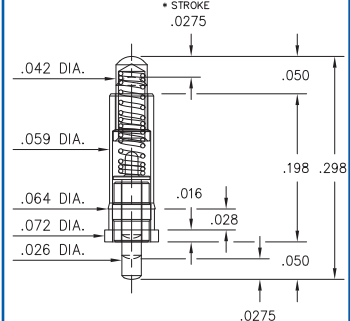


0922-0-15-20-75-14-11-0

Standard Stroke

Solder mount in .027 min. mounting hole

0980



0980-0-15-20-75-14-11-0

Double action, *.055 Combined Stroke
Mount between parallel circuit boards

ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

MATERIAL SPECIFICATIONS:

SLEEVE & PLUNGER MATERIAL: Copper Alloy
SPRING MATERIAL: Beryllium Copper
SLEEVE & PLUNGER FINISH: 20 μ" Gold over Nickel
SPRING FINISH: 10 μ" Gold over Nickel
DIMENSION IN INCHES:
TOLERANCES ON: LENGTHS: ±.006
 DIAMETERS: ±.002
 ANGLES: ± 2°



MECHANICAL & ELECTRICAL SPECIFICATIONS:

DURABILITY: 1,000,000 cycles

CURRENT RATING: 2A continuous, 3A peak

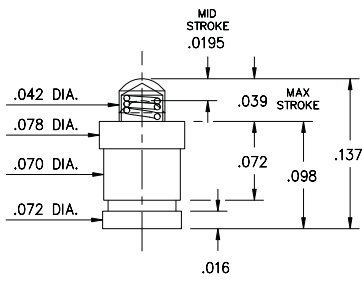
CONTACT RESISTANCE: 20 mΩ max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g
77	.045	.090	60 g	25 g

75, 76, 77 Springs are not interchangeable

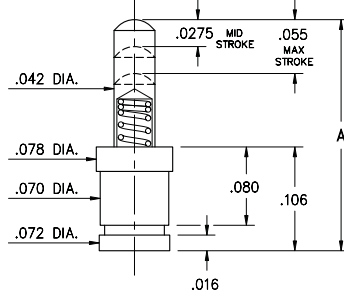
0910-0

0910-1⇒4



0910-0-57-20-76-14-11-0

Short Stroke, Surface mount
Packaged on 16mm wide carrier
tape: 1,500 parts per 13" reel.



0910-X-57-20-75-14-11-0

Standard Stroke, Surface mount
Packaged on carrier tape.
See chart for tape width and qty. per reel

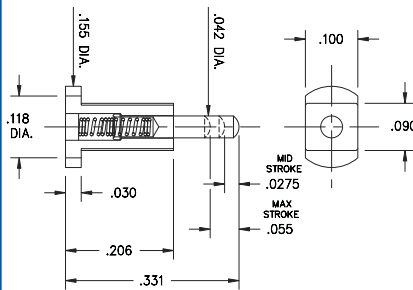


Basic Part Number	Length A
0910-1	.177
0910-2	.197
0910-3	.217
0910-4	.236

Basic Part Number	Tape Width	Quantity per Reel
0910-1	16mm	1,500
0910-2	24mm	1,100
0910-3	24mm	1,100
0910-4	24mm	1,100

0967

0990-0

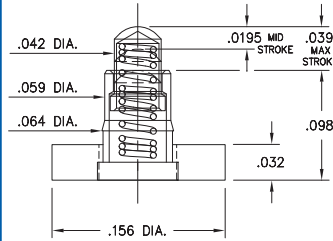
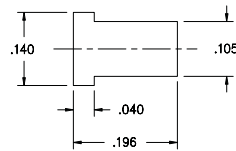


0967-0-15-20-75-14-11-0

Standard Stroke, Horizontal Surface mount
Also available on 16mm wide carrier
tape: 2,200 parts per 13" reel.
Order as: 0967-0-58-20-75-14-11-0



P.C.B. Layout

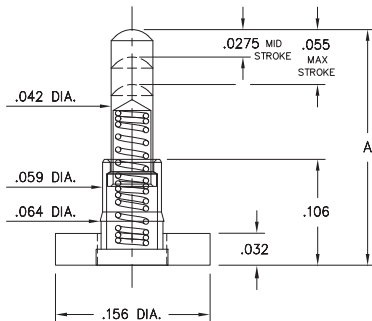


0990-0-50-20-76-14-11-0

Short Stroke, Surface mount
Large Base

0990-1⇒4

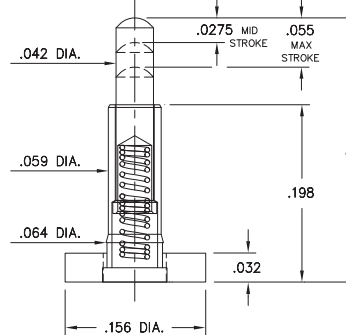
0997-0⇒9



0990-X-50-20-75-14-11-0

Standard Stroke, Surface mount
Large Base

Basic Part Number	Length A
0990-1	.177
0990-2	.197
0990-3	.217
0990-4	.236



0997-X-50-20-75-14-11-0

Standard Stroke, Surface mount
Large Base

Basic Part Number	Length A
0997-0	.255
0997-1	.275
0997-2	.295
0997-3	.315
0997-4	.335
0997-5	.350
0997-6	.370
0997-7	.390
0997-8	.410
0997-9	.430

ORDER CODE: 09XX - X - XX - 20 - 7X - 14 - 11 - 0

Spring Number

MATERIAL SPECIFICATIONS:

SLEEVE & PLUNGER MATERIAL: Copper Alloy
SPRING MATERIAL: Beryllium Copper
SLEEVE & PLUNGER FINISH: 20 μ " Gold over Nickel
SPRING FINISH: 10 μ " Gold over Nickel
DIMENSION IN INCHES:
TOLERANCES ON: LENGTHS: $\pm .006$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$



MECHANICAL & ELECTRICAL SPECIFICATIONS:

DURABILITY: 1,000,000 cycles

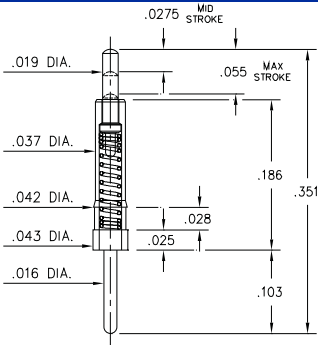
CURRENT RATING: 2A continuous, 3A peak

CONTACT RESISTANCE: 20 m Ω max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
75	.0275	.055	60 g	25 g
76	.0195	.039	60 g	25 g

75 & 76 Springs are not Interchangeable

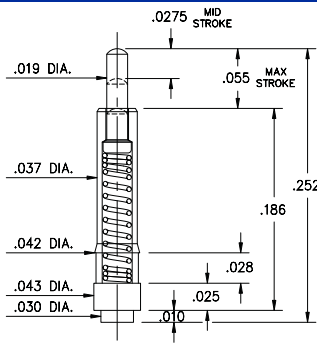
0950



0950-0-15-20-71-14-11-0

Standard Stroke
Solder Mount in .018 min. mounting hole

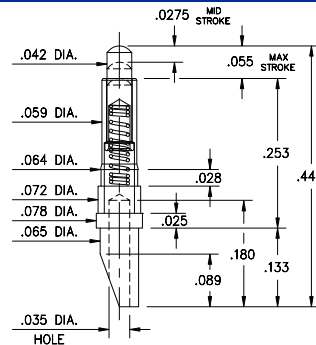
0951



0951-0-15-20-71-14-11-0

Standard Stroke, Surface mount
High profile

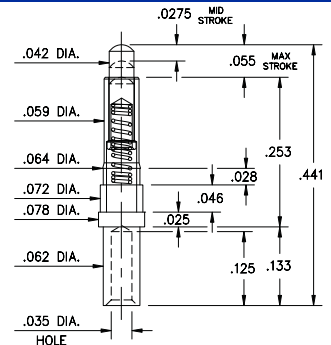
0933



0933-0-15-20-75-14-11-0

Standard Stroke, SolderCup
For Wire Termination

0962



0962-0-15-20-75-14-11-0

Standard Stroke, Crimp Barrel
For Wire Termination

ORDER CODE: 09XX - X - 15 - 20 - 7X - 14 - 11 - 0

Spring Number

MATERIAL SPECIFICATIONS:

SLEEVE & PLUNGER MATERIAL: Copper Alloy
SPRING MATERIAL: Beryllium Copper
SLEEVE & PLUNGER FINISH: 20 μ " Gold over Nickel
SPRING FINISH: 10 μ " Gold over Nickel
DIMENSION IN INCHES:
TOLERANCES ON: LENGTHS: $\pm .006$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$



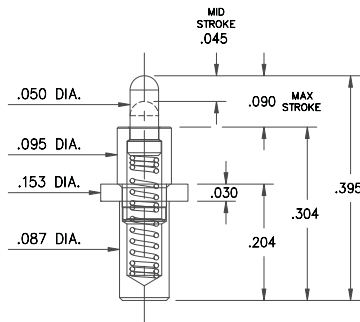
MECHANICAL & ELECTRICAL SPECIFICATIONS:

DURABILITY: 1,000,000 cycles
CURRENT RATING: 2A continuous, 3A peak
CONTACT RESISTANCE: 20 m Ω max.

SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
71	.0275	.055	50 g	15 g
75	.0275	.055	60 g	25 g

Springs are not Interchangeable

0850



0850-0-15-20-83-14-11-0

Power Spring Pin

Solder Mount in .090 min. mounting hole

Specifications for #0850-0 & #0852-0:

Material:

- Sleeve & Plunger Material: Copper Alloy
- Spring Material: Stainless Steel 302.

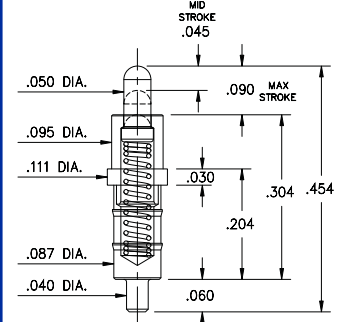
Mechanical Characteristics:

- Force @ mid-stroke (.045") = 120 grams
- Maximum stroke length = .090"
- Mechanical life: 1,000,000 cycles

Electrical Characteristics:

- Rated Current (Free air): Continuous 9 amps @ 10° C temperature rise.

0852

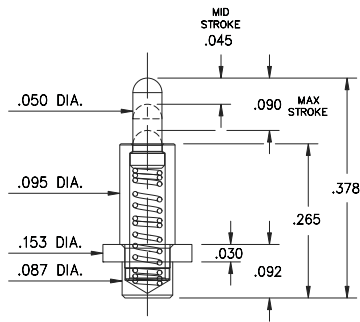


0852-0-15-20-83-14-11-0

Power Spring Pin

Solder Mount in .043 min. mounting hole

0851



0851-0-15-20-82-14-11-0

Power Spring Pin

Solder Mount in .090 min. mounting hole

Specifications for #0851-0 & #0853-0:

Material:

- Sleeve & Plunger Material: Copper Alloy
- Spring Material: Stainless Steel 302.

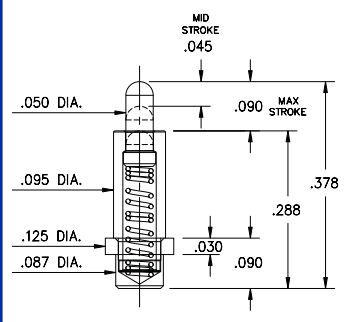
Mechanical Characteristics:

- Force @ mid-stroke (.045") = 120 grams
- Maximum stroke length = .090"
- Mechanical life: 1,000,000 cycles

Electrical Characteristics:

- Rated Current (Free air): Continuous 9 amps @ 10° C temperature rise.

0853



0853-0-15-20-82-14-11-0

Power Spring Pin

Solder Mount in .090 min. mounting hole

ORDER CODE: 085X - X - 15 - 20 - 8X - 14 - 11 - 0

Spring Number

MATERIAL SPECIFICATIONS:

SLEEVE & PLUNGER MATERIAL: Copper Alloy
SPRING MATERIAL: Stainless Steel 302
SLEEVE & PLUNGER FINISH: 20 μ" Gold over Nickel
SPRING FINISH: 10 μ" Gold over Nickel
DIMENSION IN INCHES:
TOLERANCES ON: LENGTHS: ±.006
 DIAMETERS: ±.002
 ANGLES: ± 2°



MECHANICAL & ELECTRICAL SPECIFICATIONS:

DURABILITY: 1,000,000 cycles
Rated Current (Free air): Continuous 9 amps @ 10° C temperature rise
CONTACT RESISTANCE: 20 mΩ max.

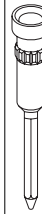
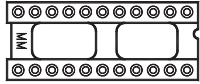
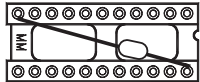
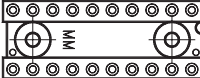
SPRING NUMBER	Mid. STROKE	Max. STROKE	FORCE @ Mid. Stroke	Initial Force (Pre-load)
82	.045	.090	120 g	25 g
83	.045	.090	120 g	25 g

82 & 83 Springs are not Interchangeable

USE THIS CONVENIENT CHART TO SELECT THE RIGHT DIP PRODUCT FOR YOUR APPLICATION.

- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame and grid spacing.
- 3) Turn to indicated page for detail and ordering information.
- 4) * denotes pins that Mill-Max will custom assemble in a selected insulator.
Contact our applications engineers for further information.

DUAL-IN-LINE SOCKETS AND CARRIERS

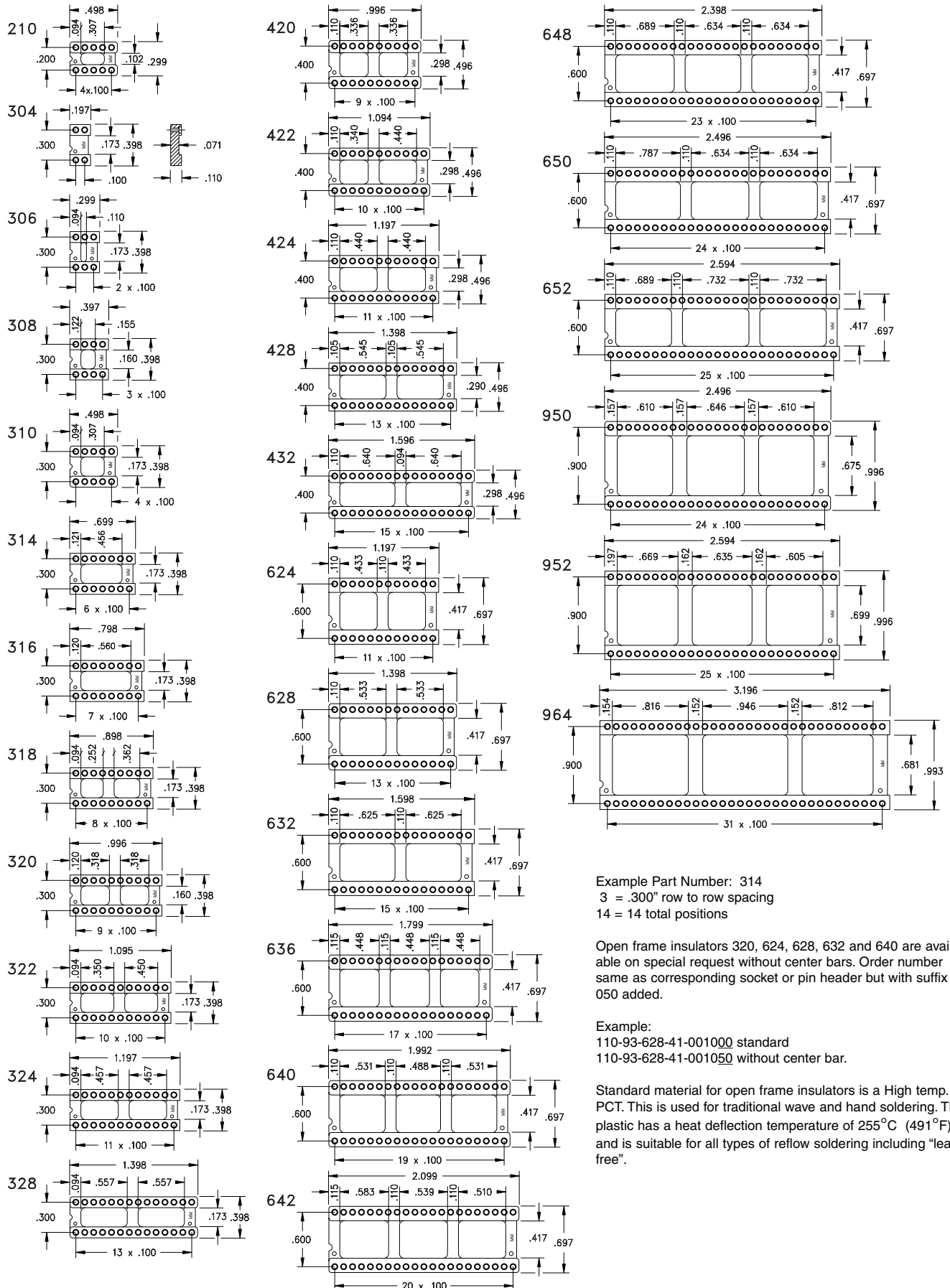
		SELECT PIN →															
		Standard Solder Tail	Clinch Pin	Long Solder Tail	Very Low Profile	Ultra Low Profile	Auto-Insertion	Solderless Press-Fit	Surface Mount		1-4 Level Wrapost	Pluggable Wrapost	Elevated	Right Angle	Socket Carriers		
SELECT INSULATOR ↓		TURN TO PAGE # ↘															
																	
	OPEN FRAME DIP	22 32	27	23	24	25	26	28 29	36	38 39	41	42	43		44	45 46	47
	CAPACITOR DIP	30									30						
	CLOSED FRAME DIP	31 33		*	*		*	*	37	40	31 34	*	*	61	*	*	*

For Shrink DIP Sockets (on .070" grid), see page 57 - 60

For Technical Specifications, see page 4.

DUAL-IN-LINE HEADERS

		SELECT PIN →						TURN TO PAGE #	
		.018 Dia. Solder Tail & Wrapost	Slotted Head Solder Tail & Wrapost	Turret Head Solder Tail & Wrapost	Solder Cup Solder Tail & Wrapost	Elevated Pin to Pin	Gull Wing Surface Mount		
	OPEN FRAME DIP							48	49
								50	51
								52 53	54 55
								56	



Example Part Number: 314
 3 = .300" row to row spacing
 14 = 14 total positions

Open frame insulators 320, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

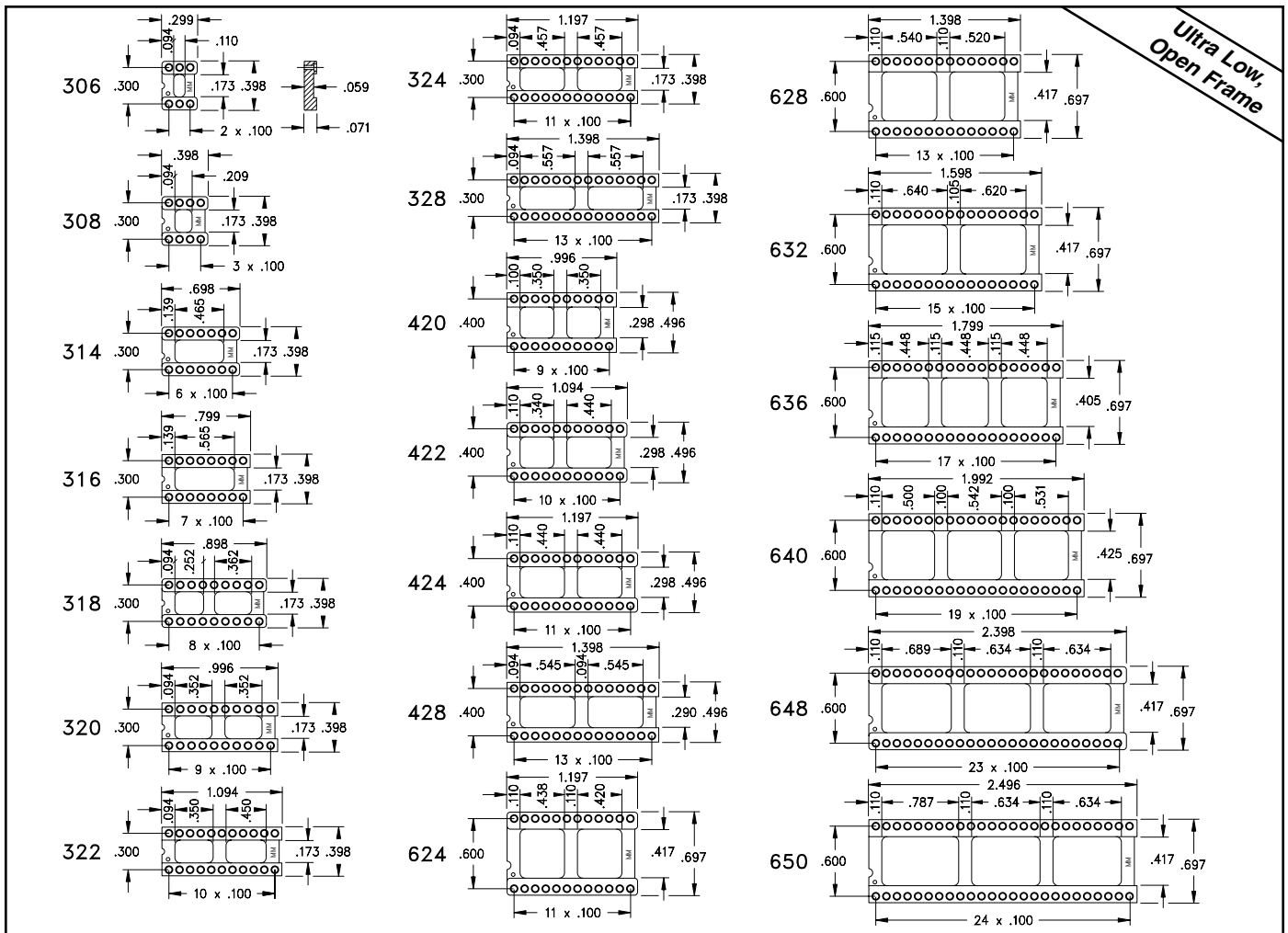
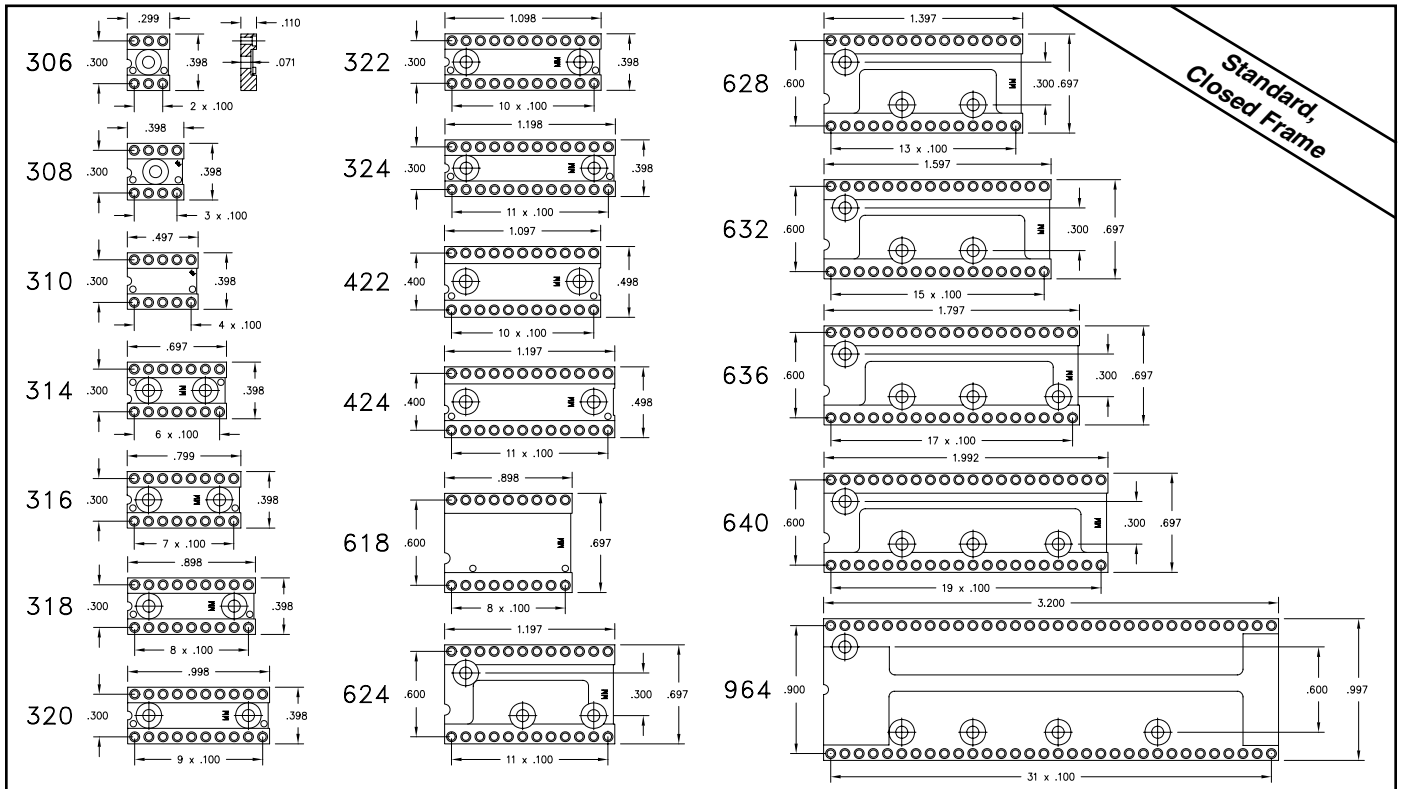
Example:
 110-93-628-41-001000 standard
 110-93-628-41-001050 without center bar.

Standard material for open frame insulators is a High temp. PCT. This is used for traditional wave and hand soldering. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".



DUAL-IN-LINE INSULATORS

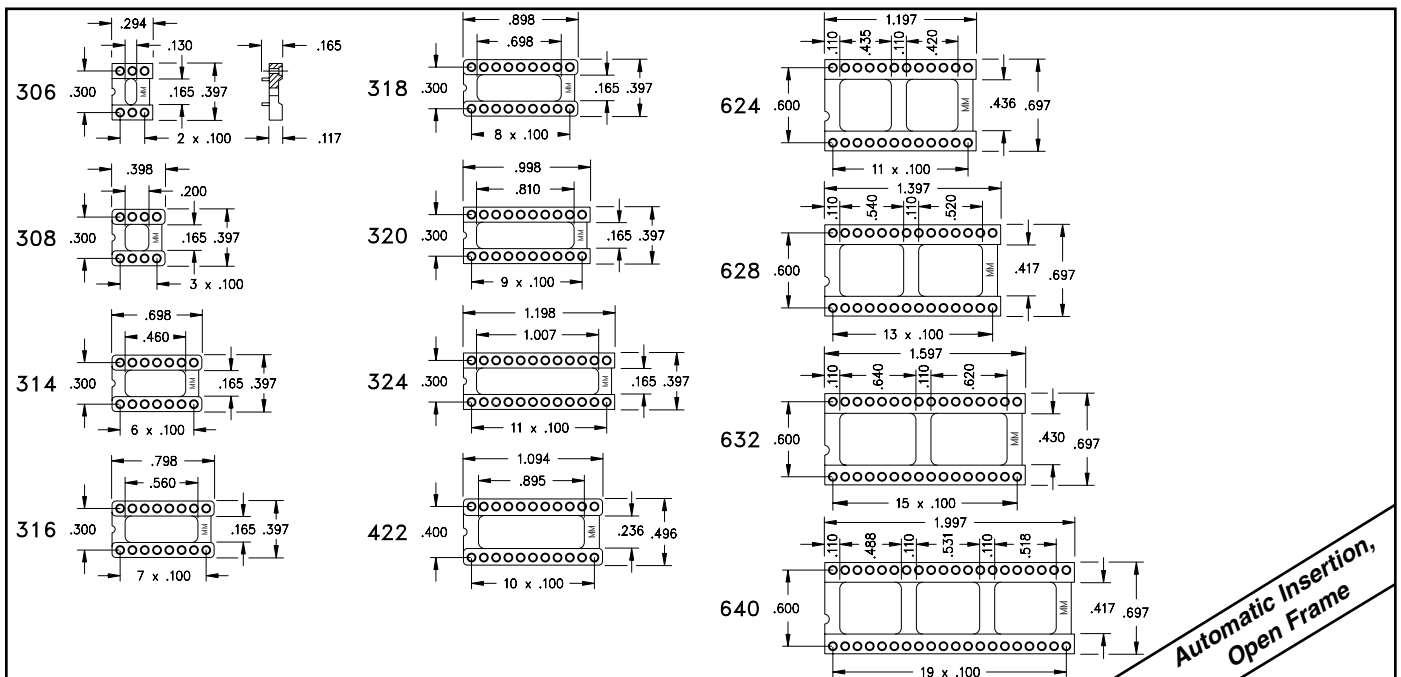
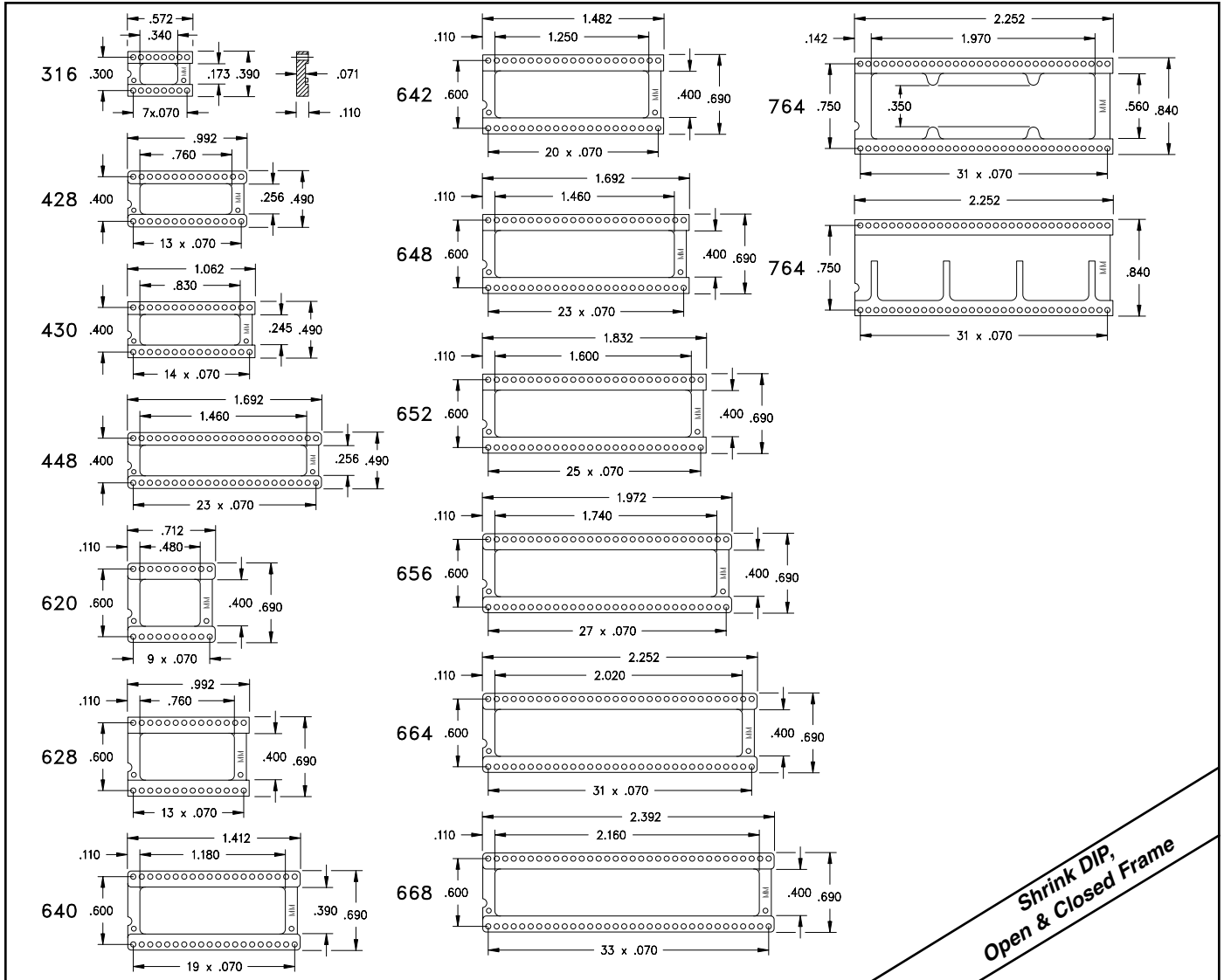
Standard, Closed Frame
Ultra Low Profile, Open Frame

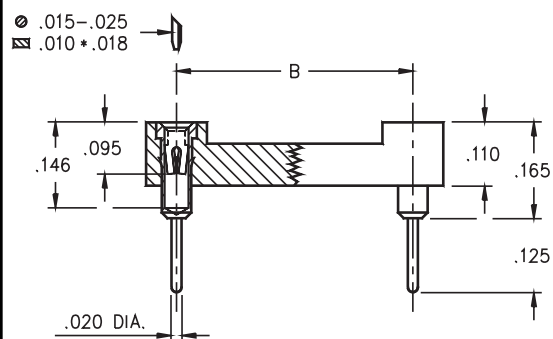




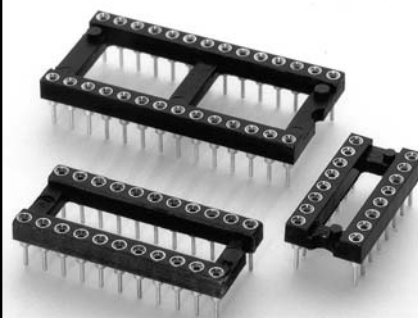
DUAL-IN-LINE INSULATORS

Shrink DIP, Open and Closed Frame
Automatic Insertion, Open Frame





- All DIP sockets accept .015" - .025" diameter & standard IC leads.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 sockets use MM #1001 pins. See page 136 for details.
- Insulators are high temp. thermoplastic.

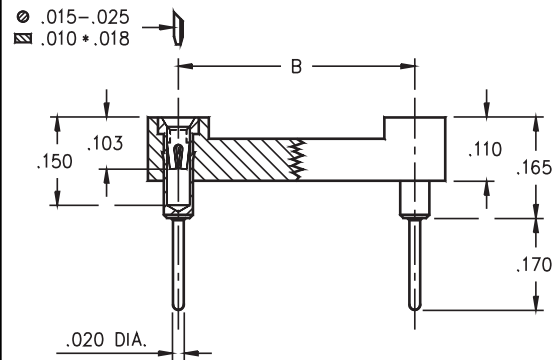


Total number of pins				Quantity per tube	Ordering Information		
	A	B	C				
10	0.5	0.2	0.3	40	110-XX-210-41-001000		For RoHS compliance select plating code.
4	0.2	0.3	0.4	102	110-XX-304-41-001000		
6	0.3	0.3	0.4	67	110-XX-306-41-001000		
8	0.4	0.3	0.4	50	110-XX-308-41-001000		
10	0.5	0.3	0.4	40	110-XX-310-41-001000		For RoHS compliance select plating code.
14	0.7	0.3	0.4	28	110-XX-314-41-001000		
16	0.8	0.3	0.4	25	110-XX-316-41-001000		
18	0.9	0.3	0.4	22	110-XX-318-41-001000		
20	1.0	0.3	0.4	20	110-XX-320-41-001000		
22	1.1	0.3	0.4	18	110-XX-322-41-001000		
24	1.2	0.3	0.4	16	110-XX-324-41-001000		
28	1.4	0.3	0.4	14	110-XX-328-41-001000		
20	1.0	0.4	0.5	20	110-XX-420-41-001000		
22	1.1	0.4	0.5	18	110-XX-422-41-001000		
24	1.2	0.4	0.5	16	110-XX-424-41-001000		
28	1.4	0.4	0.5	14	110-XX-428-41-001000		
32	1.6	0.4	0.5	12	110-XX-432-41-001000		
24	1.2	0.6	0.7	16	110-XX-624-41-001000		For RoHS compliance select plating code.
28	1.4	0.6	0.7	14	110-XX-628-41-001000		
32	1.6	0.6	0.7	12	110-XX-632-41-001000		
36	1.8	0.6	0.7	11	110-XX-636-41-001000		
40	2.0	0.6	0.7	10	110-XX-640-41-001000		
42	2.1	0.6	0.7	9	110-XX-642-41-001000		
48	2.4	0.6	0.7	8	110-XX-648-41-001000		
50	2.5	0.6	0.7	8	110-XX-650-41-001000		
52	2.6	0.6	0.7	7	110-XX-652-41-001000		
50	2.5	0.9	1.0	8	110-XX-950-41-001000		XX=Plating Code See Below
52	2.6	0.9	1.0	7	110-XX-952-41-001000		
64	3.2	0.9	1.0	6	110-XX-964-41-001000		

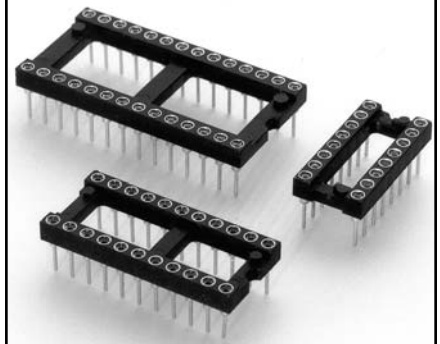
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

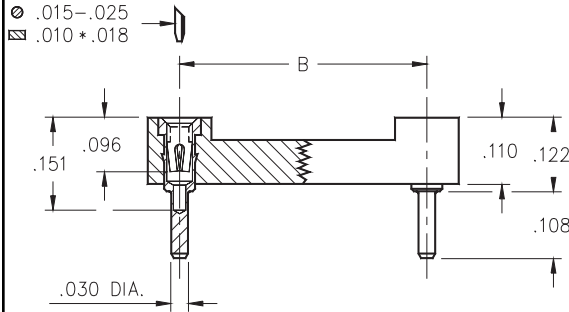
SPECIFY PLATING CODE XX=	13	91	93	99	41	43	44
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb	10μ" Au	30μ" Au	200μ" Sn



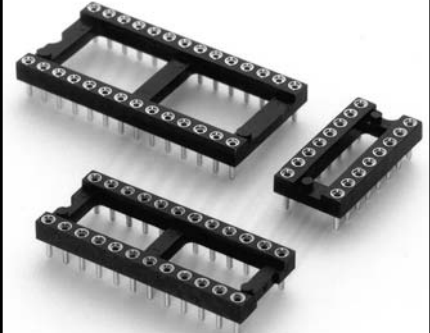
- DIP sockets with increased solder tail length of .170", allowing application on multi-layer PCBs up to .139" thick. Other lengths available upon request.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 111 use MM #0134 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information			
	A	B	C					
10	0.5	0.2	0.3	40	111-XX-210-41-001000	For RoHS compliance select plating code.		
4	0.2	0.3	0.4	102	111-XX-304-41-001000			
6	0.3	0.3	0.4	67	111-XX-306-41-001000			
8	0.4	0.3	0.4	50	111-XX-308-41-001000			
10	0.5	0.3	0.4	40	111-XX-310-41-001000			
14	0.7	0.3	0.4	28	111-XX-314-41-001000			
16	0.8	0.3	0.4	25	111-XX-316-41-001000			
18	0.9	0.3	0.4	22	111-XX-318-41-001000			
20	1.0	0.3	0.4	20	111-XX-320-41-001000			
22	1.1	0.3	0.4	18	111-XX-322-41-001000			
24	1.2	0.3	0.4	16	111-XX-324-41-001000			
28	1.4	0.3	0.4	14	111-XX-328-41-001000			
20	1.0	0.4	0.5	20	111-XX-420-41-001000			
22	1.1	0.4	0.5	18	111-XX-422-41-001000			
24	1.2	0.4	0.5	16	111-XX-424-41-001000			
28	1.4	0.4	0.5	14	111-XX-428-41-001000			
32	1.6	0.4	0.5	12	111-XX-432-41-001000			
24	1.2	0.6	0.7	16	111-XX-624-41-001000			
28	1.4	0.6	0.7	14	111-XX-628-41-001000			
32	1.6	0.6	0.7	12	111-XX-632-41-001000			
36	1.8	0.6	0.7	11	111-XX-636-41-001000			
40	2.0	0.6	0.7	10	111-XX-640-41-001000			
42	2.1	0.6	0.7	9	111-XX-642-41-001000			
48	2.4	0.6	0.7	8	111-XX-648-41-001000			
50	2.5	0.6	0.7	8	111-XX-650-41-001000			
52	2.6	0.6	0.7	7	111-XX-652-41-001000			
50	2.5	0.9	1.0	8	111-XX-950-41-001000			
52	2.6	0.9	1.0	7	111-XX-952-41-001000			
64	3.2	0.9	1.0	6	111-XX-964-41-001000			
SPECIFY PLATING CODE XX=					93		43	
Sleeve (Pin)					200μ" Sn/Pb		200μ" Sn	
Contact (Clip)					30μ" Au		30μ" Au	

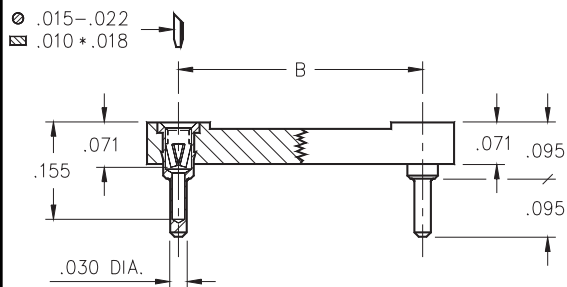


- Low profile DIP socket, sits only .122" above the PCB.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 115 use MM #0501 pins. See page 133 for details.
- Insulators are high temperature thermoplastic.

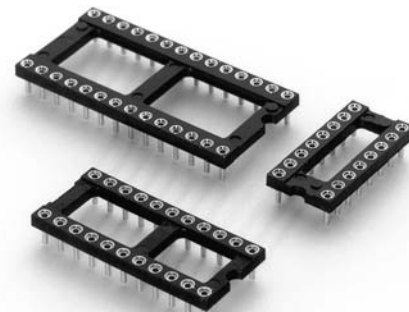


Total number of pins				Quantity per tube	Ordering Information			
	A	B	C					
10	0.5	0.2	0.3	41	115-XX-210-41-001000	 For RoHS compliance select plating code.		
4	0.2	0.3	0.4	102	115-XX-304-41-001000			
6	0.3	0.3	0.4	67	115-XX-306-41-001000			
8	0.4	0.3	0.4	50	115-XX-308-41-001000			
10	0.5	0.3	0.4	40	115-XX-310-41-001000			
14	0.7	0.3	0.4	28	115-XX-314-41-001000			
16	0.8	0.3	0.4	25	115-XX-316-41-001000			
18	0.9	0.3	0.4	22	115-XX-318-41-001000			
20	1.0	0.3	0.4	20	115-XX-320-41-001000			
22	1.1	0.3	0.4	18	115-XX-322-41-001000			
24	1.2	0.3	0.4	16	115-XX-324-41-001000			
28	1.4	0.3	0.4	14	115-XX-328-41-001000			
20	1.0	0.4	0.5	20	115-XX-420-41-001000			
22	1.1	0.4	0.5	18	115-XX-422-41-001000			
24	1.2	0.4	0.5	16	115-XX-424-41-001000			
28	1.4	0.4	0.5	14	115-XX-428-41-001000			
32	1.6	0.4	0.5	12	115-XX-432-41-001000			
24	1.2	0.6	0.7	16	115-XX-624-41-001000			
28	1.4	0.6	0.7	14	115-XX-628-41-001000			
32	1.6	0.6	0.7	12	115-XX-632-41-001000			
36	1.8	0.6	0.7	11	115-XX-636-41-001000			
40	2.0	0.6	0.7	10	115-XX-640-41-001000			
42	2.1	0.6	0.7	9	115-XX-642-41-001000			
48	2.4	0.6	0.7	8	115-XX-648-41-001000			
50	2.5	0.6	0.7	8	115-XX-650-41-001000			
52	2.6	0.6	0.7	7	115-XX-652-41-001000			
50	2.5	0.9	1.0	8	115-XX-950-41-001000			
52	2.6	0.9	1.0	7	115-XX-952-41-001000			
64	3.2	0.9	1.0	6	115-XX-964-41-001000			

SPECIFY PLATING CODE XX=				93			43	
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn	
Contact (Clip)				30μ" Au			30μ" Au	

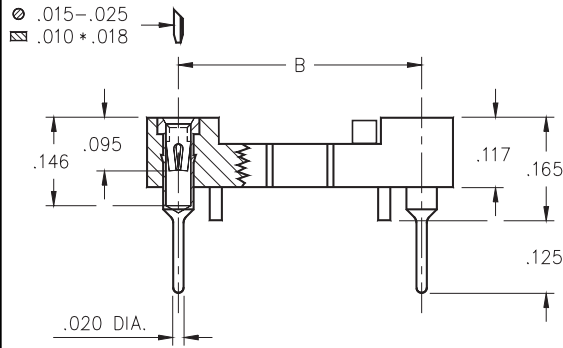


- Our lowest profile DIP socket with an above PCB height of only .095".
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 218 for details.
- Series 115 use MM #1534 pins. See page 132 for details.
- Insulators are high temperature thermoplastic.

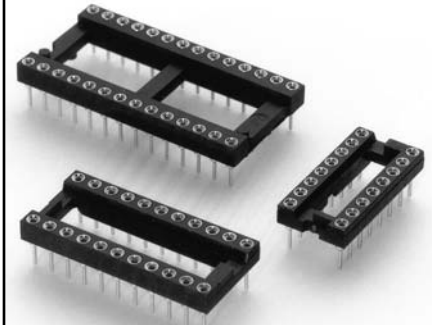


Total number of pins				Quantity per tube	Ordering Information		
	A	B	C				
6	0.3	0.3	0.4	68	115-XX-306-41-003000	For RoHS compliance select plating code.	
8	0.4	0.3	0.4	50	115-XX-308-41-003000		
14	0.7	0.3	0.4	28	115-XX-314-41-003000		
16	0.8	0.3	0.4	25	115-XX-316-41-003000		
18	0.9	0.3	0.4	22	115-XX-318-41-003000		
20	1.0	0.3	0.4	20	115-XX-320-41-003000		
22	1.1	0.3	0.4	18	115-XX-322-41-003000		
24	1.2	0.3	0.4	16	115-XX-324-41-003000		
28	1.4	0.3	0.4	14	115-XX-328-41-003000		
20	1.0	0.4	0.5	20	115-XX-420-41-003000		
22	1.1	0.4	0.5	18	115-XX-422-41-003000		
24	1.2	0.4	0.5	16	115-XX-424-41-003000		
28	1.4	0.4	0.5	14	115-XX-428-41-003000		
24	1.2	0.6	0.7	16	115-XX-624-41-003000		
28	1.4	0.6	0.7	14	115-XX-628-41-003000		
32	1.6	0.6	0.7	12	115-XX-632-41-003000		
36	1.8	0.6	0.7	11	115-XX-636-41-003000		
40	2.0	0.6	0.7	10	115-XX-640-41-003000		
48	2.4	0.6	0.7	8	115-XX-648-41-003000		
50	2.5	0.6	0.7	8	115-XX-650-41-003000		
					For Electrical, Mechanical & Enviromental Data, See pg. 4 XX=Plating Code See Below		

SPECIFY PLATING CODE XX=			93			43	44
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	200μ" Sn
Contact (Clip)			30μ" Au			30μ" Au	200μ" Sn



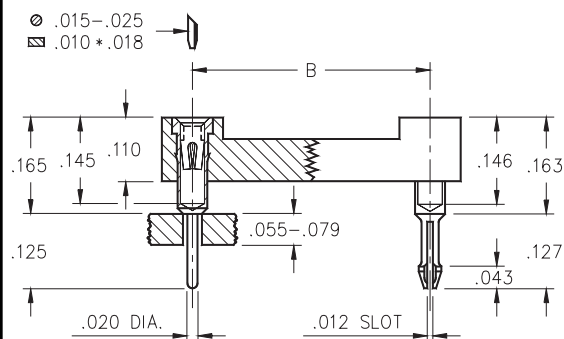
- High temperature thermo-plastic insulator with standoffs is compatible with standard automatic insertion equipment.
- Soft copper alloy machined pins allows clinching. Chamfered contact entry allows for ease of IC insertion without bent leads.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 use MM #1005 pins. See page 137 for details.



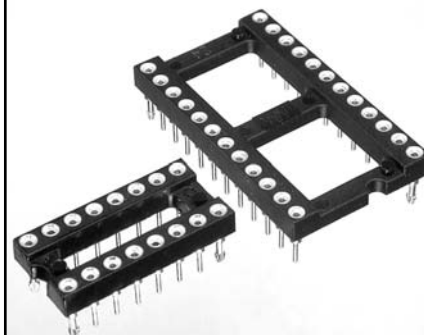
Total number of pins				Quantity per tube	Ordering Information			
	A	B	C					
6	0.3	0.3	0.4	67	110-XX-306-41-605000			
8	0.4	0.3	0.4	50	110-XX-308-41-605000			
14	0.7	0.3	0.4	28	110-XX-314-41-605000			
16	0.8	0.3	0.4	25	110-XX-316-41-605000			
18	0.9	0.3	0.4	22	110-XX-318-41-605000			
20	1.0	0.3	0.4	20	110-XX-320-41-605000	For RoHS compliance select plating code.		
24	1.2	0.3	0.4	16	110-XX-324-41-605000			
22	1.1	0.4	0.5	18	110-XX-422-41-605000			
24	1.2	0.6	0.7	16	110-XX-624-41-605000			
28	1.4	0.6	0.7	14	110-XX-628-41-605000			
32	1.6	0.6	0.7	12	110-XX-632-41-605000	XX=Plating Code See Below		
40	2.0	0.6	0.7	10	110-XX-640-41-605000			

For Electrical,
Mechanical & Enviromental
Data, See pg. 4

SPECIFY PLATING CODE XX=			93			43	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	



- Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction.
- Sockets are XY stackable.
- Socket pins feature closed end construction eliminating any solder wicking problems.
- Series 101 use MM #1001 & MM #0156 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information
	A	B	C		
6	0.3	0.3	0.4	67	101-93-306-41-56X000
8	0.4	0.3	0.4	50	101-93-308-41-56X000
14	0.7	0.3	0.4	28	101-93-314-41-56X000
16	0.8	0.3	0.4	25	101-93-316-41-56X000
18	0.9	0.3	0.4	22	101-93-318-41-56X000
20	1.0	0.3	0.4	20	101-93-320-41-56X000
24	1.2	0.3	0.4	16	101-93-324-41-56X000
28	1.4	0.3	0.4	14	101-93-328-41-56X000
22	1.1	0.4	0.5	18	101-93-422-41-56X000
24	1.2	0.6	0.7	16	101-93-624-41-56X000
28	1.4	0.6	0.7	14	101-93-628-41-56X000
32	1.6	0.6	0.7	12	101-93-632-41-56X000
40	2.0	0.6	0.7	10	101-93-640-41-56X000
48	2.4	0.6	0.7	8	101-93-648-41-56X000
64	3.2	0.9	1.0	6	101-93-964-41-56X000

Clinch Pins: ↑

Two Opposite Corner Pins **X = 0**

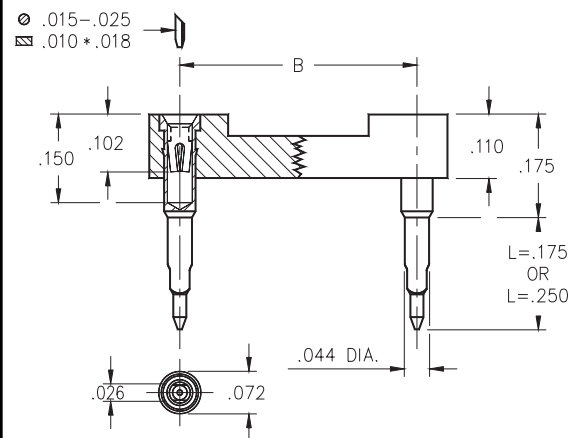
Four Corner Pins **X = 8**

For Electrical, Mechanical & Enviromental Data, See pg. 4

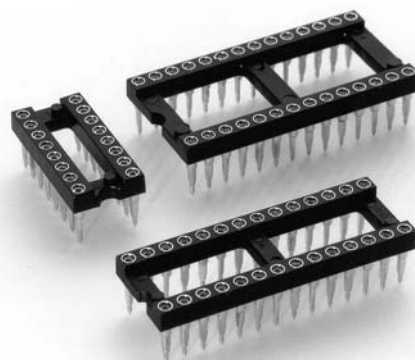
RoHS
2002/95/EC

For RoHS compliance select ◇ plating code.

PLATING CODE =				93				
Sleeve (Pin)				200μ" Sn/Pb				
Contact (Clip)				30μ" Au				



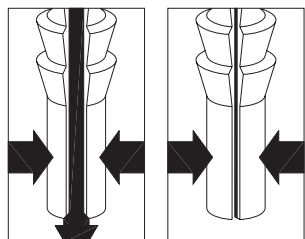
- Designed for solderless press-fit into plated thru-holes.
- Pin lengths are suitable for .062" and .093"-.125" thick panels.
- Required plated thru-hole is .036"-.041". Use a 1.1mm drill prior to plating.
- Series 104 use MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 133 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information				
	A	B	C		L = .175 (for .062 thick panel)	L = .250 (for .125 thick panel)	RoHS 2002/95/EC For RoHS compliance select plating code.		
10	0.5	0.2	0.3	40	104-13-210-41-770000	104-13-210-41-780000	For Electrical, Mechanical & Enviromental Data, See pg. 4		
4	0.2	0.3	0.4	102	104-13-304-41-770000	104-13-304-41-780000			
6	0.3	0.3	0.4	67	104-13-306-41-770000	104-13-306-41-780000			
8	0.4	0.3	0.4	50	104-13-308-41-770000	104-13-308-41-780000			
10	0.5	0.3	0.4	40	104-13-310-41-770000	104-13-310-41-780000			
14	0.7	0.3	0.4	28	104-13-314-41-770000	104-13-314-41-780000			
16	0.8	0.3	0.4	25	104-13-316-41-770000	104-13-316-41-780000			
18	0.9	0.3	0.4	22	104-13-318-41-770000	104-13-318-41-780000			
20	1.0	0.3	0.4	20	104-13-320-41-770000	104-13-320-41-780000			
22	1.1	0.3	0.4	18	104-13-322-41-770000	104-13-322-41-780000			
24	1.2	0.3	0.4	16	104-13-324-41-770000	104-13-324-41-780000			
28	1.4	0.3	0.4	14	104-13-328-41-770000	104-13-328-41-780000			
20	1.0	0.4	0.5	20	104-13-420-41-770000	104-13-420-41-780000			
22	1.1	0.4	0.5	18	104-13-422-41-770000	104-13-422-41-780000			
24	1.2	0.4	0.5	16	104-13-424-41-770000	104-13-424-41-780000			
28	1.4	0.4	0.5	14	104-13-428-41-770000	104-13-428-41-780000			
32	1.6	0.4	0.5	12	104-13-432-41-770000	104-13-432-41-780000			
24	1.2	0.6	0.7	16	104-13-624-41-770000	104-13-624-41-780000			
28	1.4	0.6	0.7	14	104-13-628-41-770000	104-13-628-41-780000			
32	1.6	0.6	0.7	12	104-13-632-41-770000	104-13-632-41-780000			
36	1.8	0.6	0.7	11	104-13-636-41-770000	104-13-636-41-780000			
40	2.0	0.6	0.7	10	104-13-640-41-770000	104-13-640-41-780000			
42	2.1	0.6	0.7	9	104-13-642-41-770000	104-13-642-41-780000			
48	2.4	0.6	0.7	8	104-13-648-41-770000	104-13-648-41-780000			
50	2.5	0.6	0.7	8	104-13-650-41-770000	104-13-650-41-780000			
52	2.6	0.6	0.7	7	104-13-652-41-770000	104-13-652-41-780000			
50	2.5	0.9	1.0	8	104-13-950-41-770000	104-13-950-41-780000			
52	2.6	0.9	1.0	7	104-13-952-41-770000	104-13-952-41-780000			
64	3.2	0.9	1.0	6	104-13-964-41-770000	104-13-964-41-780000			
PLATING CODE XX=				13					
Sleeve (Pin)				10μ" Au					
Contact (Clip)				30μ" Au					

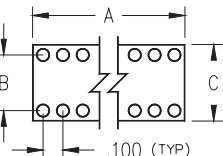
- Unique compliant tail pins conform to .040"±.003" finished hole diameter without stressing inner layers.
- Two tails lengths are offered for .060"-.100" and .090"-.130" thick panels.
- Series 146 use MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 133 for details.
- Insulators are high temperature thermoplastic.

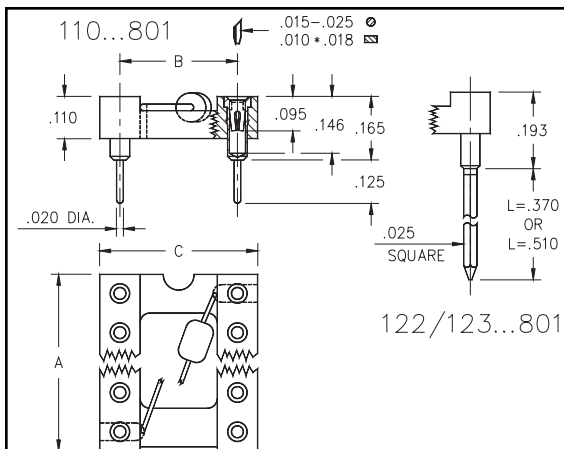
APPLICATION OF COMPLIANT TAIL PINS



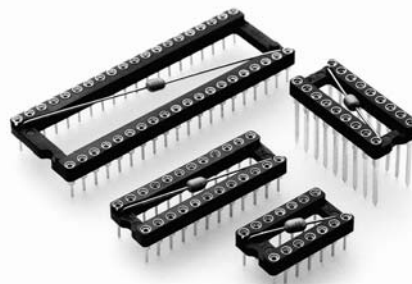
Mill-Max's patented* compliant tail features precision-machined pins that are hollow and slotted to conform to a .040" ± .003" diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

Total number of pins				Quantity per tube	Ordering Information			
					L=.120 (for .060"-.100" thick panel)	L=.175 (for .090"-.130" thick panel)	 <i>For RoHS compliance select  plating code.</i>	
	A	B	C					
6	0.3	0.3	0.4	67	146-XX-306-41-012000	146-XX-306-41-013000	<i>For Electrical, Mechanical & Enviromental Data, See pg. 4</i>	
8	0.4	0.3	0.4	50	146-XX-308-41-012000	146-XX-308-41-013000		
14	0.7	0.3	0.4	28	146-XX-314-41-012000	146-XX-314-41-013000		
16	0.8	0.3	0.4	25	146-XX-316-41-012000	146-XX-316-41-013000		
18	0.9	0.3	0.4	22	146-XX-318-41-012000	146-XX-318-41-013000		
20	1.0	0.3	0.4	20	146-XX-320-41-012000	146-XX-320-41-013000	<i>XX=Plating Code See Below</i>	
24	1.2	0.3	0.4	16	146-XX-324-41-012000	146-XX-324-41-013000		
22	1.1	0.4	0.5	18	146-XX-422-41-012000	146-XX-422-41-013000		
24	1.2	0.6	0.7	16	146-XX-624-41-012000	146-XX-624-41-013000		
28	1.4	0.6	0.7	14	146-XX-628-41-012000	146-XX-628-41-013000		
32	1.6	0.6	0.7	12	146-XX-632-41-012000	146-XX-632-41-013000		
40	2.0	0.6	0.7	10	146-XX-640-41-012000	146-XX-640-41-013000		
SPECIFY PLATING CODE XX=					93		43 	
Sleeve (Pin) 					200μ" Sn/Pb		200μ" Sn	
Contact (Clip) 					30μ" Au		30μ" Au	



- Low profile DIP sockets with integral decoupling capacitor: .1μ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 136 and 166 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510
14	0.7	0.3	0.4	28	110-XX-314-41-801000	122-13-314-41-801000	123-XX-314-41-801000
16	0.8	0.3	0.4	25	110-XX-316-41-801000	122-13-316-41-801000	123-XX-316-41-801000
18	0.9	0.3	0.4	22	110-XX-318-41-801000	122-13-318-41-801000	123-XX-318-41-801000
20	1.0	0.3	0.4	20	110-XX-320-41-801000	122-13-320-41-801000	123-XX-320-41-801000
22	1.1	0.3	0.4	18	110-XX-322-41-801000	122-13-322-41-801000	123-XX-322-41-801000
24	1.2	0.3	0.4	16	110-XX-324-41-801000	122-13-324-41-801000	123-XX-324-41-801000
28	1.4	0.3	0.4	14	110-XX-328-41-801000	122-13-328-41-801000	123-XX-328-41-801000
22	1.1	0.4	0.5	18	110-XX-422-41-801000	122-13-422-41-801000	123-XX-422-41-801000
24	1.2	0.6	0.7	16	110-XX-624-41-801000	122-13-624-41-801000	123-XX-624-41-801000
28	1.4	0.6	0.7	14	110-XX-628-41-801000	122-13-628-41-801000	123-XX-628-41-801000
32	1.6	0.6	0.7	12	110-XX-632-41-801000	122-13-632-41-801000	123-XX-632-41-801000
40	2.0	0.6	0.7	10	110-XX-640-41-801000	122-13-640-41-801000	123-XX-640-41-801000

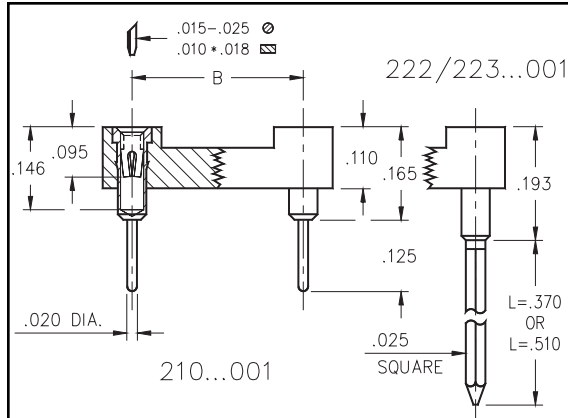
For Electrical,
Mechanical & Enviromental
Data, See pg. 4

XX=Plating Code
See Below

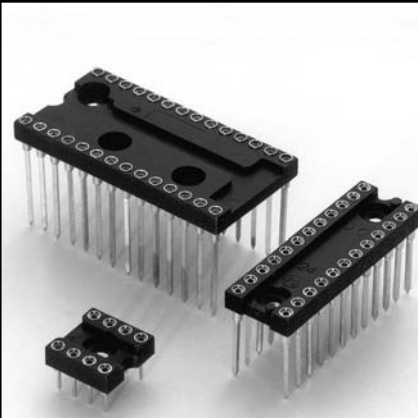
For RoHS compliance
select ◇ plating code.

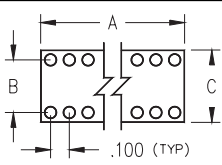
RoHS
2002/95/EC

SPECIFY PLATING CODE XX=	13◇		93			43◇	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	



- Closed frame insulator with-stands high mechanical impact.
- Available with standard solder pins, 2-level or 3-level wraposts.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 136 and 166 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510
6	0.3	0.3	0.4	67	210-XX-306-41-001000	222-XX-306-41-001000	223-XX-306-41-001000
8	0.4	0.3	0.4	50	210-XX-308-41-001000	222-XX-308-41-001000	223-XX-308-41-001000
10	0.5	0.3	0.4	40	210-XX-310-41-001000	222-XX-310-41-001000	223-XX-310-41-001000
14	0.7	0.3	0.4	28	210-XX-314-41-001000	222-XX-314-41-001000	223-XX-314-41-001000
16	0.8	0.3	0.4	25	210-XX-316-41-001000	222-XX-316-41-001000	223-XX-316-41-001000
18	0.9	0.3	0.4	22	210-XX-318-41-001000	222-XX-318-41-001000	223-XX-318-41-001000
20	1.0	0.3	0.4	20	210-XX-320-41-001000	222-XX-320-41-001000	223-XX-320-41-001000
22	1.1	0.3	0.4	18	210-XX-322-41-001000	222-XX-322-41-001000	223-XX-322-41-001000
24	1.2	0.3	0.4	16	210-XX-324-41-001000	222-XX-324-41-001000	223-XX-324-41-001000
22	1.1	0.4	0.5	18	210-XX-422-41-001000	222-XX-422-41-001000	223-XX-422-41-001000
24	1.2	0.4	0.5	16	210-XX-424-41-001000	222-XX-424-41-001000	223-XX-424-41-001000
24	1.2	0.6	0.7	16	210-XX-624-41-001000	222-XX-624-41-001000	223-XX-624-41-001000
28	1.4	0.6	0.7	14	210-XX-628-41-001000	222-XX-628-41-001000	223-XX-628-41-001000
32	1.6	0.6	0.7	12	210-XX-632-41-001000	222-XX-632-41-001000	223-XX-632-41-001000
36	1.8	0.6	0.7	11	210-XX-636-41-001000	222-XX-636-41-001000	223-XX-636-41-001000
40	2.0	0.6	0.7	10	210-XX-640-41-001000	222-XX-640-41-001000	223-XX-640-41-001000
64	3.2	0.9	1.0	6	210-XX-964-41-001000	222-XX-964-41-001000	223-XX-964-41-001000

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select plating code.

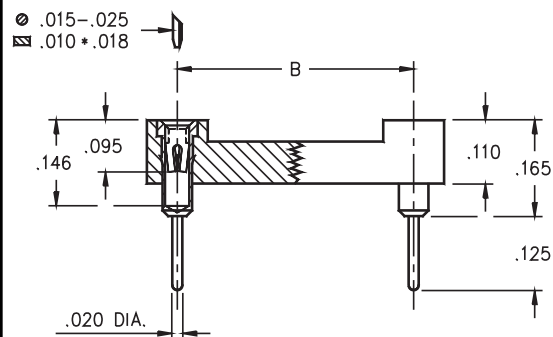
RoHS
2002/95/EC

SPECIFY PLATING CODE XX=	13	93	99	43	44
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	200μ" Sn/Pb	30μ" Au	200μ" Sn

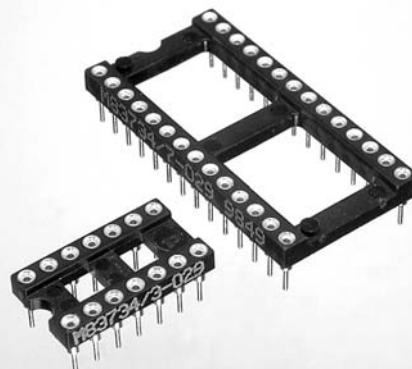


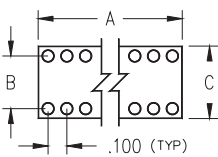
MILITARY DUAL-IN-LINE SOCKETS MIL-S-83734 APPROVED Solder Tail, Open Frame

Series 110...530



- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-entry construction eliminating any solder/flux wicking problems.
- Packaged in tubes compatible with automatic insertion equipment.
- Series 110 use MM #1001 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		Mill-Max Part Number		Military Part Number	
8	0.4	0.3	0.4	50	110-XX-308-41-530000	M83734/2-YYY		
14	0.7	0.3	0.4	28	110-XX-314-41-530000	M83734/3-YYY		
16	0.8	0.3	0.4	25	110-XX-316-41-530000	M83734/4-YYY		
18	0.9	0.3	0.4	22	110-XX-318-41-530000	M83734/5-YYY		
20	1.0	0.3	0.4	20	110-XX-320-41-530000	M83734/13-YYY		
22	1.1	0.4	0.5	18	110-XX-422-41-530000	M83734/6-YYY		
24	1.2	0.6	0.7	16	110-XX-624-41-530000	M83734/8-YYY		
28	1.4	0.6	0.7	14	110-XX-628-41-530000	M83734/7-YYY		
40	2.0	0.6	0.7	10	110-XX-640-41-530000	M83734/10-YYY		
48	2.4	0.6	0.7	8	110-XX-648-41-530000	M83734/14-YYY		
64	3.2	0.9	1.0	6	110-XX-964-41-530000	M83734/15-YYY		
								
SEE PAGE 35 FOR COMPLETE QPL								
SPECIFY MILL-MAX PLATING CODE XX=					33	83	88	
FOR MILITARY CODE YYY=					028	029	030	
Sleeve (Pin) 					30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb	
Contact (Clip) 					30μ" Au	30μ" Au	100μ" Sn/Pb	

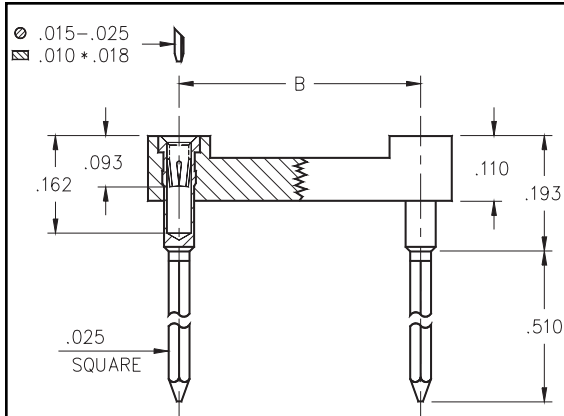


MILITARY DUAL-IN-LINE SOCKETS MIL-S-83734 APPROVED Solder Tail, Closed Frame

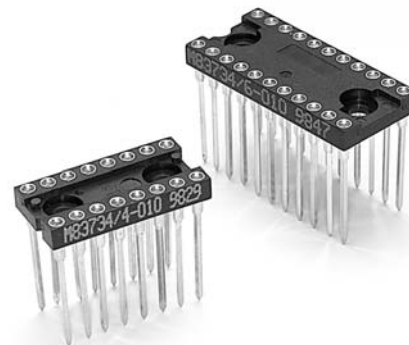
Series 210...101

- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-end construction eliminating any solder/flux wicking problems.
- Packaged in tubes compatible with automatic insertion equipment.
- Series 210 use MM #1001 pins. See page 136 for details.
- Insulators are high temperature thermoplastic.

Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		Mill-Max Part Number		Military Part Number	
6	0.3	0.3	0.4	67	210-XX-306-41-101000		M83734/1-YYY	
8	0.4	0.3	0.4	50	210-XX-308-41-101000		M83734/2-YYY	
14	0.7	0.3	0.4	28	210-XX-314-41-101000		M83734/3-YYY	
16	0.8	0.3	0.4	25	210-XX-316-41-101000		M83734/4-YYY	
18	0.9	0.3	0.4	22	210-XX-318-41-101000		M83734/5-YYY	
20	1.0	0.3	0.4	20	210-XX-320-41-101000		M83734/13-YYY	
22	1.1	0.4	0.5	18	210-XX-422-41-101000		M83734/6-YYY	
24	1.2	0.6	0.7	16	210-XX-624-41-101000		M83734/8-YYY	
28	1.4	0.6	0.7	14	210-XX-628-41-101000		M83734/7-YYY	
32	1.6	0.6	0.7	10	210-XX-632-41-101000		M83734/17-YYY	
40	2.0	0.6	0.7	8	210-XX-640-41-101000		M83734/10-YYY	
64	3.2	0.9	1.0	6	210-XX-964-41-101000		M83734/15-YYY	
					For Electrical, Mechanical & Enviromental Data, See pg. 4		XX=Plating Code See Below	
SEE PAGE 35 FOR COMPLETE QPL								
SPECIFY MILL-MAX PLATING CODE XX=					33	83	88	
FOR MILITARY CODE YYY=					031	032	033	
(6 PIN ONLY) YYY=					025	026	027	
(32 PIN ONLY) YYY=					013	014	015	
Sleeve (Pin)					30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb	
Contact (Clip)					30μ" Au	30μ" Au	100μ" Sn/Pb	



- Sockets are XY stackable.
- Machined outer sleeve with Hi-Rel, BeCu #30 inner contact.
- Socket pins feature closed-end construction eliminating any solder/flux wicking problems.
- Series 223 use MM #0038-3 pins. See page 166 for details.
- Insulators are high temperature thermoplastic.

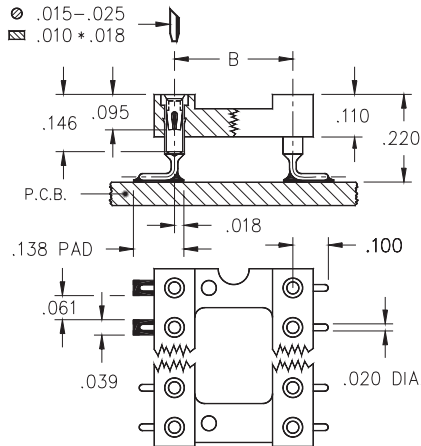


Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		Mill-Max Part Number		Military Part Number	
6	0.3	0.3	0.4	67	223-XX-306-41-101000	M83734/1-YYY		
8	0.4	0.3	0.4	50	223-XX-308-41-101000	M83734/2-YYY		
14	0.7	0.3	0.4	28	223-XX-314-41-101000	M83734/3-YYY		
16	0.8	0.3	0.4	25	223-XX-316-41-101000	M83734/4-YYY		
18	0.9	0.3	0.4	22	223-XX-318-41-101000	M83734/5-YYY		
20	1.0	0.3	0.4	20	223-XX-320-41-101000	M83734/13-YYY		
22	1.1	0.4	0.5	18	223-XX-422-41-101000	M83734/6-YYY		
24	1.2	0.6	0.7	16	223-XX-624-41-101000	M83734/8-YYY		
28	1.4	0.6	0.7	14	223-XX-628-41-101000	M83734/7-YYY		
32	1.6	0.6	0.7	12	223-XX-632-41-101000	M83734/17-YYY		
40	2.0	0.6	0.7	10	223-XX-640-41-101000	M83734/10-YYY		
64	3.2	0.9	1.0	6	223-XX-964-41-101000	M83734/15-YYY		
SEE PAGE 35 FOR COMPLETE QPL								
SPECIFY MILL-MAX PLATING CODE XX=					33	83	88	
FOR MILITARY CODE YYY=					010	011	012	
(32 PIN ONLY) YYY=					007	008	009	
Sleeve (Pin)					30μ" Au	300μ" Sn/Pb	300μ" Sn/Pb	
Contact (Clip)					30μ" Au	30μ" Au	100μ" Sn/Pb	

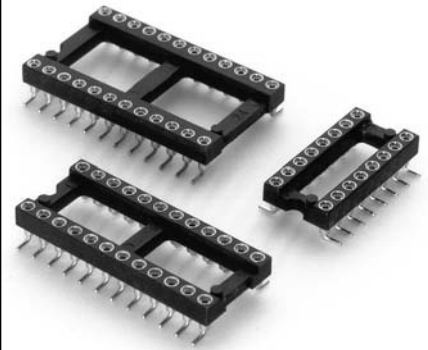


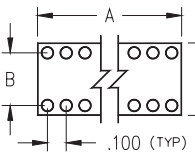
DIP SOCKETS QUALIFIED to MIL-S-83734

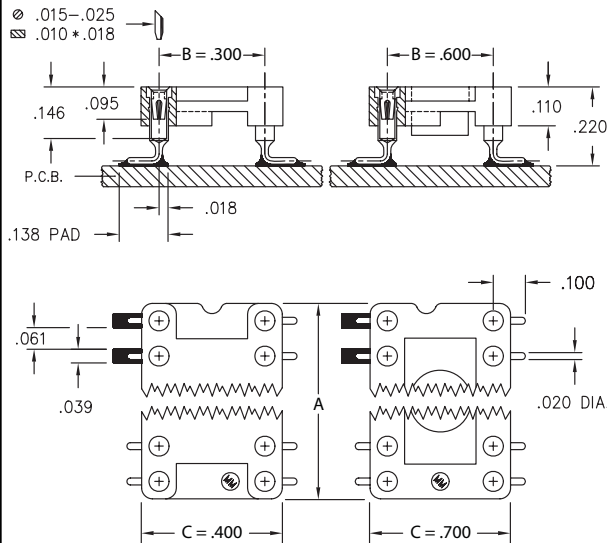
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M83734/1-010	223-33-306-41-101000	M83734/7-010	223-33-628-41-101000	M83734/15-032	210-83-964-41-101000
M83734/1-011	223-83-306-41-101000	M83734/7-011	223-83-628-41-101000	M83734/15-033	210-88-964-41-101000
M83734/1-012	223-88-306-41-101000	M83734/7-012	223-88-628-41-101000		
M83734/1-025	210-33-306-41-101000	M83734/7-028	110-33-628-41-530000	M83734/17-001	221-33-632-41-101000
M83734/1-026	210-83-306-41-101000	M83734/7-029	110-83-628-41-530000	M83734/17-002	221-83-632-41-101000
M83734/1-027	210-88-306-41-101000	M83734/7-030	110-88-628-41-530000	M83734/17-003	221-88-632-41-101000
		M83734/7-031	210-33-628-41-101000	M83734/17-004	222-33-632-41-101000
M83734/2-010	223-33-308-41-101000	M83734/7-032	210-83-628-41-101000	M83734/17-005	222-83-632-41-101000
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M83734/2-029	110-83-308-41-530000	M83734/8-011	223-83-624-41-101000	M83734/17-009	223-88-632-41-101000
M83734/2-030	110-88-308-41-530000	M83734/8-012	223-88-624-41-101000	M83734/17-013	210-33-632-41-101000
M83734/2-031	210-33-308-41-101000	M83734/8-028	110-33-624-41-530000	M83734/17-014	210-83-632-41-101000
M83734/2-032	210-83-308-41-101000	M83734/8-029	110-83-624-41-530000	M83734/17-015	210-88-632-41-101000
M83734/2-033	210-88-308-41-101000	M83734/8-030	110-88-624-41-530000		
		M83734/8-031	210-33-624-41-101000		
M83734/3-010	223-33-314-41-101000	M83734/8-032	210-83-624-41-101000		
M83734/3-011	223-83-314-41-101000	M83734/8-033	210-88-624-41-101000		
M83734/3-012	223-88-314-41-101000				
M83734/3-028	110-33-314-41-530000	M83734/9-010	223-33-636-41-101000		
M83734/3-029	110-83-314-41-530000	M83734/9-011	223-83-636-41-101000		
M83734/3-030	110-88-314-41-530000	M83734/9-012	223-88-636-41-101000		
M83734/3-031	210-33-314-41-101000	M83734/9-031	210-33-636-41-101000		
M83734/3-032	210-83-314-41-101000	M83734/9-032	210-83-636-41-101000		
M83734/3-033	210-88-314-41-101000	M83734/9-033	210-88-636-41-101000		
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M83734/4-011	223-83-316-41-101000	M83734/10-011	223-83-640-41-101000		
M83734/4-012	223-88-316-41-101000	M83734/10-012	223-88-640-41-101000		
M83734/4-028	110-33-316-41-530000	M83734/10-028	110-33-640-41-530000		
M83734/4-029	110-83-316-41-530000	M83734/10-029	110-83-640-41-530000		
M83734/4-030	110-88-316-41-530000	M83734/10-030	110-88-640-41-530000		
M83734/4-031	210-33-316-41-101000	M83734/10-031	210-33-640-41-101000		
M83734/4-032	210-83-316-41-101000	M83734/10-032	210-83-640-41-101000		
M83734/4-033	210-88-316-41-101000	M83734/10-033	210-88-640-41-101000		
M83734/5-010	223-33-318-41-101000	M83734/13-010	223-33-320-41-101000		
M83734/5-011	223-83-318-41-101000	M83734/13-011	223-83-320-41-101000		
M83734/5-012	223-88-318-41-101000	M83734/13-012	223-88-320-41-101000		
M83734/5-028	110-33-318-41-530000	M83734/13-028	110-33-320-41-530000		
M83734/5-029	110-83-318-41-530000	M83734/13-029	110-83-320-41-530000		
M83734/5-030	110-88-318-41-530000	M83734/13-030	110-88-320-41-530000		
M83734/5-031	210-33-318-41-101000	M83734/13-031	210-33-320-41-101000		
M83734/5-032	210-83-318-41-101000	M83734/13-032	210-83-320-41-101000		
M83734/5-033	210-88-318-41-101000	M83734/13-033	210-88-320-41-101000		
M83734/6-010	223-33-422-41-101000	M83734/14-028	110-33-648-41-530000		
M83734/6-011	223-83-422-41-101000	M83734/14-029	110-83-648-41-530000		
M83734/6-012	223-88-422-41-101000	M83734/14-030	110-88-648-41-530000		
M83734/6-028	110-33-422-41-530000				
M83734/6-029	110-83-422-41-530000	M83734/15-010	223-33-964-41-101000		
M83734/6-030	110-88-422-41-530000	M83734/15-011	223-83-964-41-101000		
M83734/6-031	210-33-422-41-101000	M83734/15-012	223-88-964-41-101000		
M83734/6-032	210-83-422-41-101000	M83734/15-028	110-33-964-41-530000		
M83734/6-033	210-88-422-41-101000	M83734/15-029	110-83-964-41-530000		
		M83734/15-030	110-88-964-41-530000		
		M83734/15-031	210-33-964-41-101000		



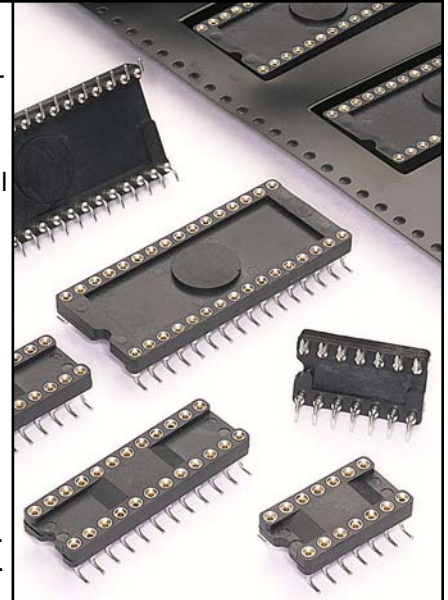
- For infra-red reflow and vapor phase soldering.
- Gull wing terminals for max. strength and easy in-circuit test.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 110 use MM #1005 pins. See page 137 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information				
	A	B	C						
10	0.5	0.2	0.3	40	 <i>For RoHS compliance select  plating code.</i>	110-XX-210-41-105000			
4	0.2	0.3	0.4	102		110-XX-304-41-105000			
6	0.3	0.3	0.4	67		110-XX-306-41-105000			
8	0.4	0.3	0.4	50		110-XX-308-41-105000			
10	0.5	0.3	0.4	40		110-XX-310-41-105000			
14	0.7	0.3	0.4	28		110-XX-314-41-105000			
16	0.8	0.3	0.4	25		110-XX-316-41-105000			
18	0.9	0.3	0.4	22		110-XX-318-41-105000			
20	1.0	0.3	0.4	20		110-XX-320-41-105000			
22	1.1	0.3	0.4	18		110-XX-322-41-105000			
24	1.2	0.3	0.4	16		110-XX-324-41-105000			
28	1.4	0.3	0.4	14		110-XX-328-41-105000			
20	1.0	0.4	0.5	20		110-XX-420-41-105000			
22	1.1	0.4	0.5	18		110-XX-422-41-105000			
24	1.2	0.4	0.5	16		110-XX-424-41-105000			
28	1.4	0.4	0.5	14		110-XX-428-41-105000			
32	1.6	0.4	0.5	12		110-XX-432-41-105000			
24	1.2	0.6	0.7	32		110-XX-624-41-105000			
28	1.4	0.6	0.7	28		110-XX-628-41-105000			
32	1.6	0.6	0.7	24		110-XX-632-41-105000			
36	1.8	0.6	0.7	22		110-XX-636-41-105000			
40	2.0	0.6	0.7	20		110-XX-640-41-105000			
42	2.1	0.6	0.7	18		110-XX-642-41-105000			
48	2.4	0.6	0.7	16		110-XX-648-41-105000			
50	2.5	0.6	0.7	16		110-XX-650-41-105000			
52	2.6	0.6	0.7	14		110-XX-652-41-105000			
50	2.5	0.9	1.0	16	<i>For Electrical, Mechanical & Enviromental Data, See pg. 4</i>	110-XX-950-41-105000			
52	2.6	0.9	1.0	14		110-XX-952-41-105000			
64	3.2	0.9	1.0	12		110-XX-964-41-105000			
SPECIFY PLATING CODE XX=						93		43 	
Sleeve (Pin) 						200μ" Sn/Pb		200μ" Sn	
Contact (Clip) 						30μ" Au		30μ" Au	



- Closed frame insulator is vision system compatible.
- High-temp Nylon 46 insulator is suitable for all forms of reflow soldering.
- Traditional gull-wing leads permit visual inspection of solder joints.
- Available packaged in tubes or on tape & reel per EIA-481.
- Uses Mill-Max #1005 pin. See page 137 for details.



Total number of pins				Ordering Information				
	A	B	C	QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)	QTY PER REEL
VACUUM PAD TOP SURFACE ONLY								
6	0.3	0.3	0.4	67	210-XX-306-41-105000	210-XX-306-41-105799	16	400
8	0.4	0.3	0.4	50	210-XX-308-41-105000	210-XX-308-41-105799	24	400
14	0.7	0.3	0.4	28	210-XX-314-41-105000	210-XX-314-41-105799	32	400
16	0.8	0.3	0.4	25	210-XX-316-41-105000	210-XX-316-41-105799	32	400
18	0.9	0.3	0.4	22	210-XX-318-41-105000	210-XX-318-41-105799	44	400
20	1.0	0.3	0.4	20	210-XX-320-41-105000	210-XX-320-41-105799	44	400
24	1.2	0.3	0.4	16	210-XX-324-41-105000	210-XX-324-41-105799	44	400
VACUUM PAD TOP AND BOTTOM								
24	1.2	0.6	0.7	16	210-XX-624-41-105000	210-XX-624-41-105799	44	300
28	1.4	0.6	0.7	14	210-XX-628-41-105000	210-XX-628-41-105799	56	300
32	1.6	0.6	0.7	12	210-XX-632-41-105000	210-XX-632-41-105799	56	300
40	2.0	0.6	0.7	10	210-XX-640-41-105000	NOT AVAILABLE		

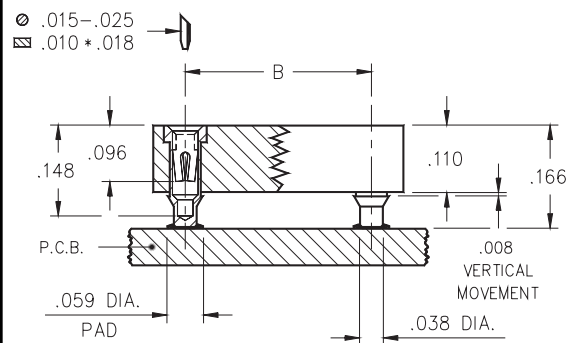
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

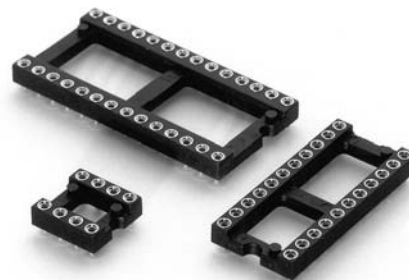
For RoHS compliance select plating code.

RoHS 2002/95/EC

SPECIFY PLATING CODE XX=	13		93			43	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	

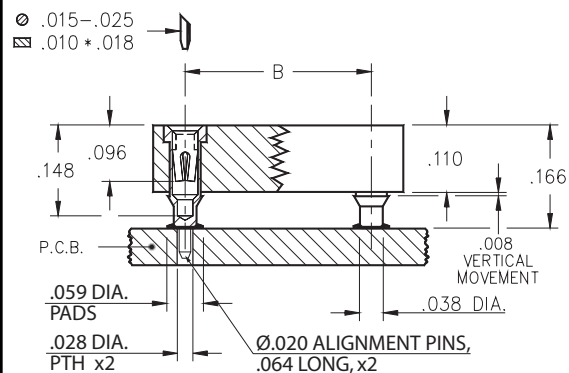


- Unique floating contacts compensate for the effects of unevenly dispensed solder paste.
- High temperature insulator can withstand infra-red reflow and vapor phase soldering.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 114 use MM #1434 pins. See page 133 for details.

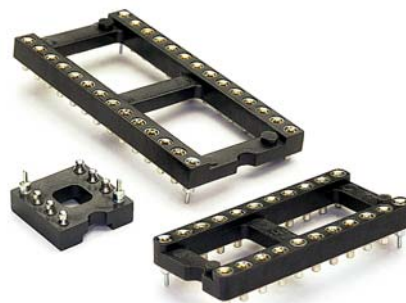


Total number of pins				Quantity per tube	Ordering Information			
	A	B	C					
10	0.5	0.2	0.3	41	114-XX-210-41-117000	For RoHS compliance select plating code.		
4	0.2	0.3	0.4	100	114-XX-304-41-117000			
6	0.3	0.3	0.4	67	114-XX-306-41-117000			
8	0.4	0.3	0.4	50	114-XX-308-41-117000			
10	0.5	0.3	0.4	40	114-XX-310-41-117000			
14	0.7	0.3	0.4	28	114-XX-314-41-117000			
16	0.8	0.3	0.4	25	114-XX-316-41-117000			
18	0.9	0.3	0.4	22	114-XX-318-41-117000			
20	1.0	0.3	0.4	20	114-XX-320-41-117000			
22	1.1	0.3	0.4	18	114-XX-322-41-117000			
24	1.2	0.3	0.4	16	114-XX-324-41-117000			
28	1.4	0.3	0.4	14	114-XX-328-41-117000			
20	1.0	0.4	0.5	20	114-XX-420-41-117000			
22	1.1	0.4	0.5	18	114-XX-422-41-117000			
24	1.2	0.4	0.5	16	114-XX-424-41-117000			
28	1.4	0.4	0.5	14	114-XX-428-41-117000			
32	1.6	0.4	0.5	12	114-XX-432-41-117000			
24	1.2	0.6	0.7	16	114-XX-624-41-117000			
28	1.4	0.6	0.7	14	114-XX-628-41-117000			
32	1.6	0.6	0.7	12	114-XX-632-41-117000			
36	1.8	0.6	0.7	11	114-XX-636-41-117000			
40	2.0	0.6	0.7	10	114-XX-640-41-117000			
42	2.1	0.6	0.7	9	114-XX-642-41-117000			
48	2.4	0.6	0.7	8	114-XX-648-41-117000			
50	2.5	0.6	0.7	8	114-XX-650-41-117000			
52	2.6	0.6	0.7	7	114-XX-652-41-117000			
50	2.5	0.9	1.0	8	114-XX-950-41-117000			
52	2.6	0.9	1.0	7	114-XX-952-41-117000			
64	3.2	0.9	1.0	6	114-XX-964-41-117000			

SPECIFY PLATING CODE XX=				93			43	
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn	
Contact (Clip)				30μ" Au			30μ" Au	

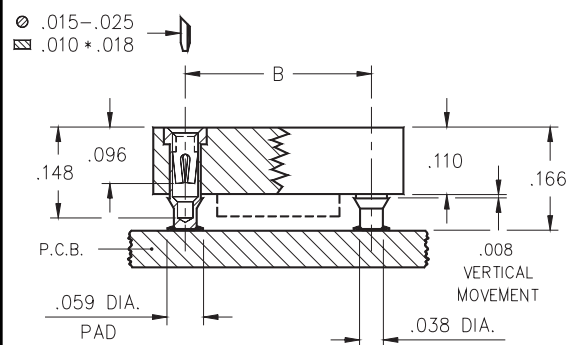


- Unique floating contacts compensate for the effects of unevenly dispensed solder paste.
- Two corner alignment pins (power & ground positions) permit manual placement.
- High temperature insulator can withstand infra-red reflow and vapor phase soldering.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 113 use MM #1334 and #1434 pins. See pages 133 & 142.

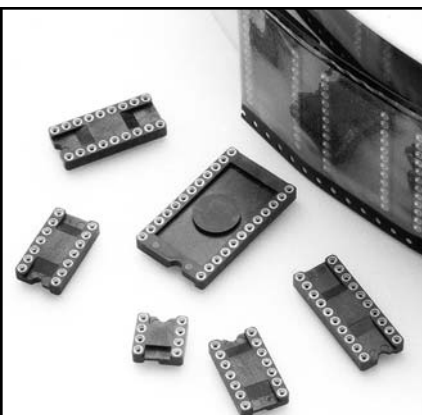


Total number of pins	ALIGNMENT PINS			Quantity per tube	Ordering Information			
	A	B	C					
10	0.5	0.2	0.3	41	113-XX-210-41-117000	For RoHS compliance select plating code.		
4	0.2	0.3	0.4	100	113-XX-304-41-117000			
6	0.3	0.3	0.4	67	113-XX-306-41-117000			
8	0.4	0.3	0.4	50	113-XX-308-41-117000			
10	0.5	0.3	0.4	40	113-XX-310-41-117000			
14	0.7	0.3	0.4	28	113-XX-314-41-117000			
16	0.8	0.3	0.4	25	113-XX-316-41-117000			
18	0.9	0.3	0.4	22	113-XX-318-41-117000			
20	1.0	0.3	0.4	20	113-XX-320-41-117000			
22	1.1	0.3	0.4	18	113-XX-322-41-117000			
24	1.2	0.3	0.4	16	113-XX-324-41-117000			
28	1.4	0.3	0.4	14	113-XX-328-41-117000			
20	1.0	0.4	0.5	20	113-XX-420-41-117000			
22	1.1	0.4	0.5	18	113-XX-422-41-117000			
24	1.2	0.4	0.5	16	113-XX-424-41-117000			
28	1.4	0.4	0.5	14	113-XX-428-41-117000			
32	1.6	0.4	0.5	12	113-XX-432-41-117000			
24	1.2	0.6	0.7	16	113-XX-624-41-117000			
28	1.4	0.6	0.7	14	113-XX-628-41-117000			
32	1.6	0.6	0.7	12	113-XX-632-41-117000			
36	1.8	0.6	0.7	11	113-XX-636-41-117000			
40	2.0	0.6	0.7	10	113-XX-640-41-117000			
42	2.1	0.6	0.7	9	113-XX-642-41-117000			
48	2.4	0.6	0.7	8	113-XX-648-41-117000			
50	2.5	0.6	0.7	8	113-XX-650-41-117000			
52	2.6	0.6	0.7	7	113-XX-652-41-117000			
50	2.5	0.9	1.0	8	113-XX-950-41-117000			
52	2.6	0.9	1.0	7	113-XX-952-41-117000			
64	3.2	0.9	1.0	6	113-XX-964-41-117000			

SPECIFY PLATING CODE XX=	13		93			43	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	



- Unique floating contacts compensate for the effects of unevenly screened solder paste.
- Available packaged in tubes or on tape & reel per EIA-481.
- High temp. Nylon 46 insulator, is suitable for infra-red & vapor phase soldering. Closed frame insulator is vision system compatible.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 214 use MM #1434 pins. See page 133 for details.



Total number of pins				Ordering Information				
	A	B	C	QTY PER TUBE	TUBE PACKAGING	TAPE & REEL PACKAGING	TAPE WIDTH (mm)	QTY PER REEL
VACUUM PAD TOP SURFACE ONLY								
6	0.3	0.3	0.4	67	214-XX-306-01-670800	214-XX-306-01-670799	16	750
8	0.4	0.3	0.4	50	214-XX-308-01-670800	214-XX-308-01-670799	16	1000
14	0.7	0.3	0.4	28	214-XX-314-01-670800	214-XX-314-01-670799	32	750
16	0.8	0.3	0.4	25	214-XX-316-01-670800	214-XX-316-01-670799	32	750
18	0.9	0.3	0.4	22	214-XX-318-01-670800	214-XX-318-01-670799	44	750
20	1.0	0.3	0.4	20	214-XX-320-01-670800	214-XX-320-01-670799	44	750
VACUUM PAD TOP AND BOTTOM								
24	1.2	0.6	0.7	16	214-XX-624-01-670800	214-XX-624-01-670799	44	400
28	1.4	0.6	0.7	14	214-XX-628-01-670800	214-XX-628-01-670799	56	400
32	1.6	0.6	0.7	12	214-XX-632-01-670800	214-XX-632-01-670799	56	400
40	2.0	0.6	0.7	10	214-XX-640-01-670800	NOT AVAILABLE		

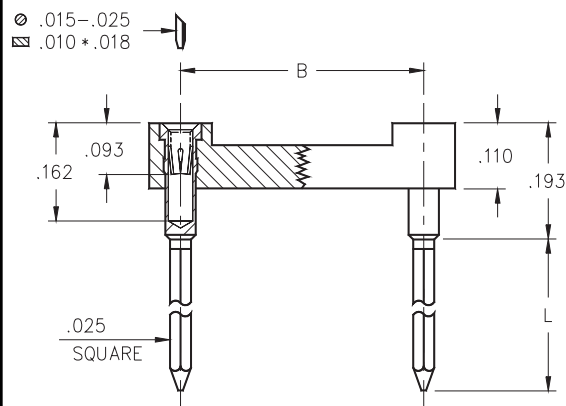
For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

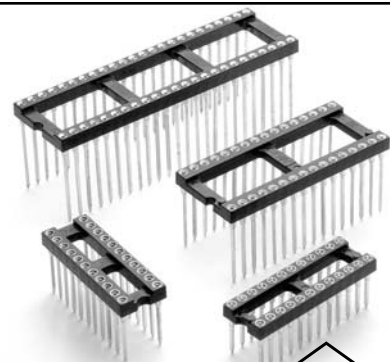
For RoHS compliance select plating code.

RoHS 2002/95/EC

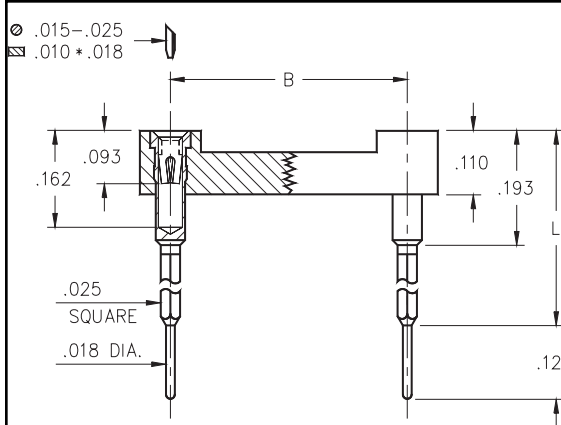
SPECIFY PLATING CODE XX=				99			44
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn
Contact (Clip)				200μ" Sn/Pb			200μ" Sn



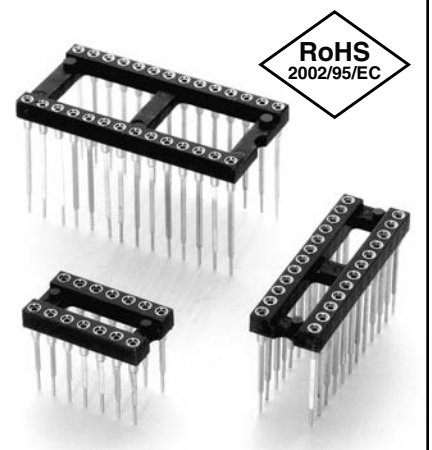
- Solderless wrapost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 166 for details.
- Insulators are high temperature thermoplastic.



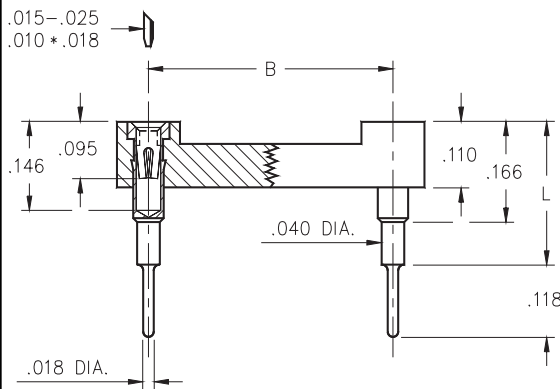
Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below			
	A	B	C		1 Level Wrapost L = .260	2 Level Wrapost L = .370	3 Level Wrapost L = .510	4 Level Wrapost L = .630
10	0.5	0.2	0.3	40	121-13-210-41-001000	122-13-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000
4	0.2	0.3	0.4	102	121-13-304-41-001000	122-13-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000
6	0.3	0.3	0.4	67	121-13-306-41-001000	122-13-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000
8	0.4	0.3	0.4	50	121-13-308-41-001000	122-13-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000
10	0.5	0.3	0.4	40	121-13-310-41-001000	122-13-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000
14	0.7	0.3	0.4	28	121-13-314-41-001000	122-13-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000
16	0.8	0.3	0.4	25	121-13-316-41-001000	122-13-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000
18	0.9	0.3	0.4	22	121-13-318-41-001000	122-13-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000
20	1.0	0.3	0.4	20	121-13-320-41-001000	122-13-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000
22	1.1	0.3	0.4	18	121-13-322-41-001000	122-13-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000
24	1.2	0.3	0.4	16	121-13-324-41-001000	122-13-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000
28	1.4	0.3	0.4	14	121-13-328-41-001000	122-13-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000
20	1.0	0.4	0.5	20	121-13-420-41-001000	122-13-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000
22	1.1	0.4	0.5	18	121-13-422-41-001000	122-13-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000
24	1.2	0.4	0.5	16	121-13-424-41-001000	122-13-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000
28	1.4	0.4	0.5	14	121-13-428-41-001000	122-13-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000
32	1.6	0.4	0.5	12	121-13-432-41-001000	122-13-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000
24	1.2	0.6	0.7	16	121-13-624-41-001000	122-13-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000
28	1.4	0.6	0.7	14	121-13-628-41-001000	122-13-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000
32	1.6	0.6	0.7	12	121-13-632-41-001000	122-13-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000
36	1.8	0.6	0.7	11	121-13-636-41-001000	122-13-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000
40	2.0	0.6	0.7	10	121-13-640-41-001000	122-13-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000
42	2.1	0.6	0.7	9	121-13-642-41-001000	122-13-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000
48	2.4	0.6	0.7	8	121-13-648-41-001000	122-13-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000
50	2.5	0.6	0.7	8	121-13-650-41-001000	122-13-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000
52	2.6	0.6	0.7	7	121-13-652-41-001000	122-13-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000
50	2.5	0.9	1.0	8	121-13-950-41-001000	122-13-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000
52	2.6	0.9	1.0	7	121-13-952-41-001000	122-13-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000
64	3.2	0.9	1.0	6	121-13-964-41-001000	122-13-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000
SPECIFY PLATING CODE XX=					13◇	93	43◇	
Sleeve (Pin)					10μ" Au	200μ" Sn/Pb	200μ" Sn	For RoHS compliance select ◇ plating code.
Contact (Clip)					30μ" Au	30μ" Au	30μ" Au	



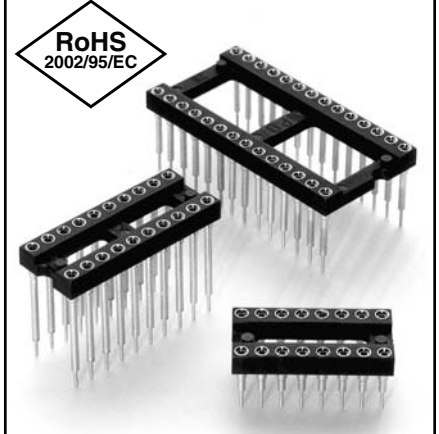
- Combines one through three level wrapost with pluggable solder tails.
- Suitable for use as an interconnect socket with intermediate wire wrapped connections.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 126 use MM #2601, #2602 & #2603 pins. See page 167 for details.
- Insulators are high temperature thermoplastic.



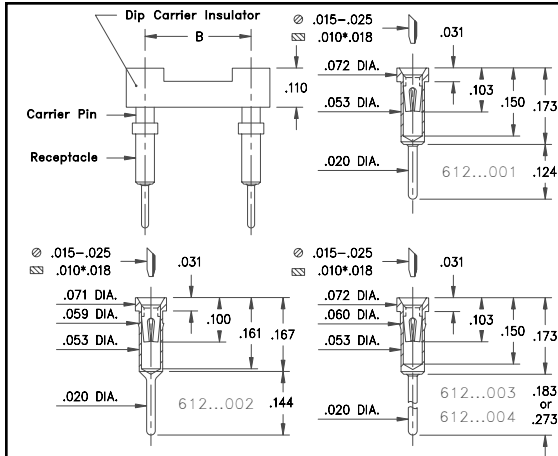
Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below		
	A	B	C		L = .425 (1 level = .232)	L = .543 (2 level = .350)	L = .661 (3 level = .469)
10	0.5	0.2	0.3	40	126-XX-210-41-001000	126-XX-210-41-002000	126-XX-210-41-003000
4	0.2	0.3	0.4	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000
6	0.3	0.3	0.4	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000
8	0.4	0.3	0.4	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000
10	0.5	0.3	0.4	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000
14	0.7	0.3	0.4	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000
16	0.8	0.3	0.4	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000
18	0.9	0.3	0.4	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000
20	1.0	0.3	0.4	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000
22	1.1	0.3	0.4	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000
24	1.2	0.3	0.4	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000
28	1.4	0.3	0.4	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000
20	1.0	0.4	0.5	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000
22	1.1	0.4	0.5	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000
24	1.2	0.4	0.5	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000
28	1.4	0.4	0.5	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000
32	1.6	0.4	0.5	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000
24	1.2	0.6	0.7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000
28	1.4	0.6	0.7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000
32	1.6	0.6	0.7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000
36	1.8	0.6	0.7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000
40	2.0	0.6	0.7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000
42	2.1	0.6	0.7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000
48	2.4	0.6	0.7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000
50	2.5	0.6	0.7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000
52	2.6	0.6	0.7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000
50	2.5	0.9	1.0	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000
52	2.6	0.9	1.0	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000
64	3.2	0.9	1.0	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000
SPECIFY PLATING CODE XX=					93	43 ◇	
Sleeve (Pin)					200μ" Sn/Pb	200μ" Sn	For RoHS compliance select ◇ plating code.
Contact (Clip)					30μ" Au	30μ" Au	



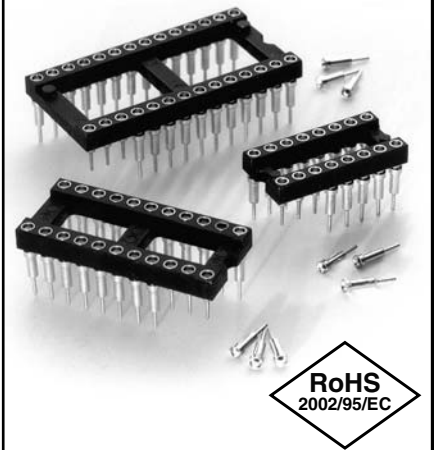
- For mechanical and electrical interconnection and stacking of PCBs.
- Other platings and heights are available upon request.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 116 use MM #0153-X pins. See page 138 for details.
- Insulators are high temperature thermoplastic.



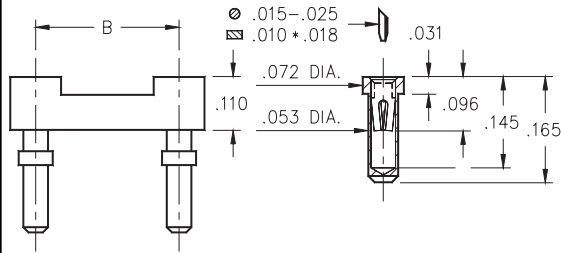
Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below				
	A	B	C		L = .236	L = .315	L = .402	L = .472	L = .594
10	0.5	0.2	0.3	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000
4	0.2	0.3	0.4	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000
6	0.3	0.3	0.4	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000
8	0.4	0.3	0.4	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000
10	0.5	0.3	0.4	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000
14	0.7	0.3	0.4	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000
16	0.8	0.3	0.4	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000
18	0.9	0.3	0.4	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000
20	1.0	0.3	0.4	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000
22	1.1	0.3	0.4	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000
24	1.2	0.3	0.4	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000
28	1.4	0.3	0.4	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000
20	1.0	0.4	0.5	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000
22	1.1	0.4	0.5	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000
24	1.2	0.4	0.5	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000
28	1.4	0.4	0.5	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000
32	1.6	0.4	0.5	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000
24	1.2	0.6	0.7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000
28	1.4	0.6	0.7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000
32	1.6	0.6	0.7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000
36	1.8	0.6	0.7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000
40	2.0	0.6	0.7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000
42	2.1	0.6	0.7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000
48	2.4	0.6	0.7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000
50	2.5	0.6	0.7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000
52	2.6	0.6	0.7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000
50	2.5	0.9	1.0	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000
52	2.6	0.9	1.0	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000
64	3.2	0.9	1.0	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000
SPECIFY PLATING CODE XX=						93		43	
Sleeve (Pin)						200µ" Sn/Pb		200µ" Sn	
Contact (Clip)						30µ" Au		30µ" Au	



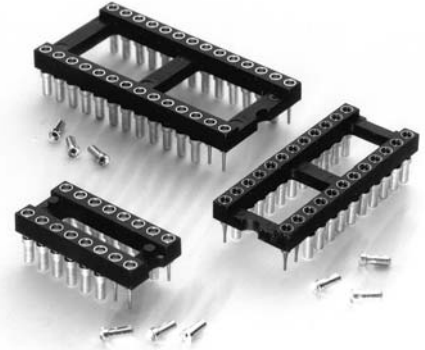
- Convenient way to load loose receptacles on a PC board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 612 use MM #0132, #0135, #0255 or #8855 pins. See pages 136 and 142 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below			
	A	B	C		Tail Length = .124 (.022 Min. Mounting Hole)	Tail Length = .144 (.022 Min. Mounting hole)	Tail Length = .183 (.022 Min. Mounting hole)	Tail Length = .273 (.022 Min. Mounting hole)
10	0.5	0.2	0.3	40	612-XX-210-41-001000	612-XX-210-41-002000	612-XX-210-41-003000	612-XX-210-41-004000
4	0.2	0.3	0.4	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000
6	0.3	0.3	0.4	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000
8	0.4	0.3	0.4	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000
10	0.5	0.3	0.4	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000
14	0.7	0.3	0.4	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000
16	0.8	0.3	0.4	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000
18	0.9	0.3	0.4	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000
20	1.0	0.3	0.4	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000
22	1.1	0.3	0.4	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000
24	1.2	0.3	0.4	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000
28	1.4	0.3	0.4	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000
20	1.0	0.4	0.5	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000
22	1.1	0.4	0.5	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000
24	1.2	0.4	0.5	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000
28	1.4	0.4	0.5	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000
32	1.6	0.4	0.5	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000
24	1.2	0.6	0.7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000
28	1.4	0.6	0.7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000
32	1.6	0.6	0.7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000
36	1.8	0.6	0.7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000
40	2.0	0.6	0.7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000
42	2.1	0.6	0.7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000
48	2.4	0.6	0.7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000
50	2.5	0.6	0.7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000
52	2.6	0.6	0.7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000
50	2.5	0.9	1.0	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000
52	2.6	0.9	1.0	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000
64	3.2	0.9	1.0	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000
SPECIFY PLATING CODE XX=					93	43		
Sleeve (Pin)					200μ" Sn/Pb	200μ" Sn	For RoHS compliance select ◇ plating code.	
Contact (Clip)					30μ" Au	30μ" Au		

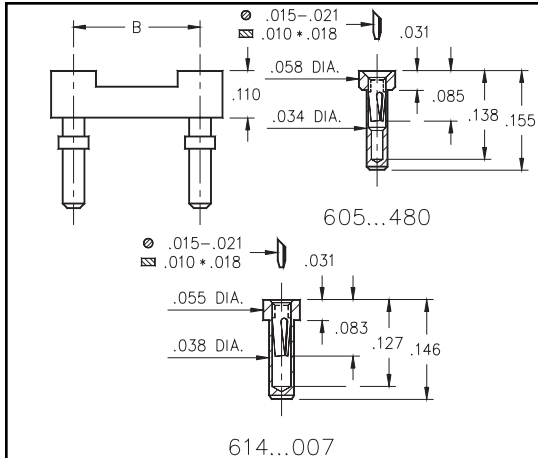


- Convenient way to load loose receptacles on a PC board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 614 use MM #1401 pins. See page 141 for details.
- Insulators are high temperature thermoplastic.

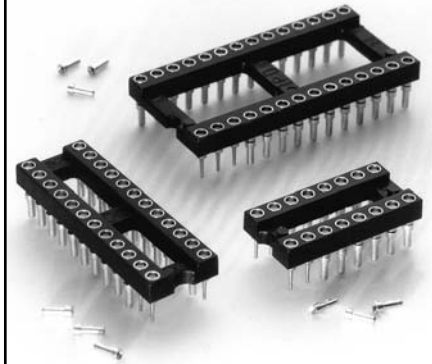


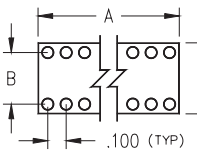
Total number of pins				Quantity per tube	Ordering Information		
	A	B	C				
10	0.5	0.2	0.3	40	614-XX-210-41-001000	For RoHS compliance select plating code.	
4	0.2	0.3	0.4	102	614-XX-304-41-001000		
6	0.3	0.3	0.4	67	614-XX-306-41-001000		
8	0.4	0.3	0.4	50	614-XX-308-41-001000		
10	0.5	0.3	0.4	40	614-XX-310-41-001000		
14	0.7	0.3	0.4	28	614-XX-314-41-001000		
16	0.8	0.3	0.4	25	614-XX-316-41-001000		
18	0.9	0.3	0.4	22	614-XX-318-41-001000		
20	1.0	0.3	0.4	20	614-XX-320-41-001000		
22	1.1	0.3	0.4	18	614-XX-322-41-001000		
24	1.2	0.3	0.4	16	614-XX-324-41-001000		
28	1.4	0.3	0.4	14	614-XX-328-41-001000		
20	1.0	0.4	0.5	20	614-XX-420-41-001000		
22	1.1	0.4	0.5	18	614-XX-422-41-001000		
24	1.2	0.4	0.5	16	614-XX-424-41-001000		
28	1.4	0.4	0.5	14	614-XX-428-41-001000		
32	1.6	0.4	0.5	12	614-XX-432-41-001000		
24	1.2	0.6	0.7	16	614-XX-624-41-001000		
28	1.4	0.6	0.7	14	614-XX-628-41-001000		
32	1.6	0.6	0.7	12	614-XX-632-41-001000		
36	1.8	0.6	0.7	11	614-XX-636-41-001000		
40	2.0	0.6	0.7	10	614-XX-640-41-001000		
42	2.1	0.6	0.7	9	614-XX-642-41-001000		
48	2.4	0.6	0.7	8	614-XX-648-41-001000		
50	2.5	0.6	0.7	8	614-XX-650-41-001000		
52	2.6	0.6	0.7	7	614-XX-652-41-001000		
50	2.5	0.9	1.0	8	614-XX-950-41-001000		
52	2.6	0.9	1.0	7	614-XX-952-41-001000		
64	3.2	0.9	1.0	6	614-XX-964-41-001000		

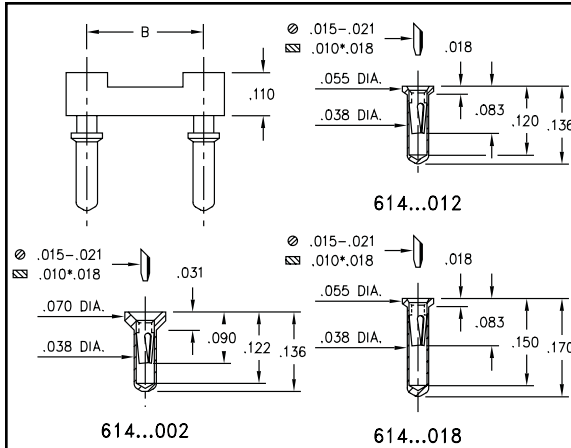
SPECIFY PLATING CODE XX=			93			43	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	



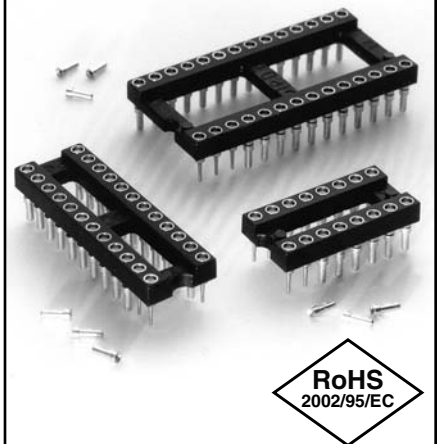
- Low profile receptacles sit only .031" high above the board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Series 605 and 614 use MM #0548 & #1407 pins. See page 128 for details.
- Insulators are high temperature thermoplastic.



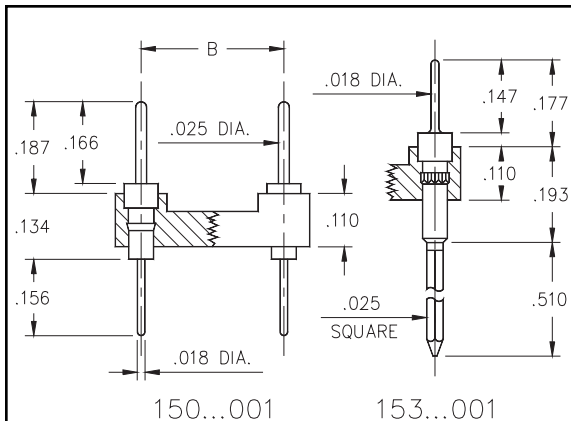
Total number of pins				Quantity per tube	Ordering Information		
	A	B	C		Length = .146	Length = .155	
					(.039 Min. Mounting Hole)	(.035 Min. Mounting Hole)	
10	0.5	0.2	0.3	40	614-XX-210-31-007000	605-XX-210-11-480000	 For RoHS compliance select  plating code.
4	0.2	0.3	0.4	102	614-XX-304-31-007000	605-XX-304-11-480000	
6	0.3	0.3	0.4	68	614-XX-306-31-007000	605-XX-306-11-480000	
8	0.4	0.3	0.4	50	614-XX-308-31-007000	605-XX-308-11-480000	
10	0.5	0.3	0.4	40	614-XX-310-31-007000	605-XX-310-11-480000	
14	0.7	0.3	0.4	28	614-XX-314-31-007000	605-XX-314-11-480000	
16	0.8	0.3	0.4	25	614-XX-316-31-007000	605-XX-316-11-480000	
18	0.9	0.3	0.4	22	614-XX-318-31-007000	605-XX-318-11-480000	
20	1.0	0.3	0.4	20	614-XX-320-31-007000	605-XX-320-11-480000	
22	1.1	0.3	0.4	18	614-XX-322-31-007000	605-XX-322-11-480000	
24	1.2	0.3	0.4	16	614-XX-324-31-007000	605-XX-324-11-480000	
28	1.4	0.3	0.4	14	614-XX-328-31-007000	605-XX-328-11-480000	
20	1.0	0.4	0.5	20	614-XX-420-31-007000	605-XX-420-11-480000	
22	1.1	0.4	0.5	18	614-XX-422-31-007000	605-XX-422-11-480000	
24	1.2	0.4	0.5	16	614-XX-424-31-007000	605-XX-424-11-480000	
28	1.4	0.4	0.5	14	614-XX-428-31-007000	605-XX-428-11-480000	
32	1.6	0.4	0.5	12	614-XX-432-31-007000	605-XX-432-11-480000	
24	1.2	0.6	0.7	16	614-XX-624-31-007000	605-XX-624-11-480000	
28	1.4	0.6	0.7	14	614-XX-628-31-007000	605-XX-628-11-480000	
32	1.6	0.6	0.7	12	614-XX-632-31-007000	605-XX-632-11-480000	
36	1.8	0.6	0.7	11	614-XX-636-31-007000	605-XX-636-11-480000	
40	2.0	0.6	0.7	10	614-XX-640-31-007000	605-XX-640-11-480000	
42	2.1	0.6	0.7	9	614-XX-642-31-007000	605-XX-642-11-480000	
48	2.4	0.6	0.7	8	614-XX-648-31-007000	605-XX-648-11-480000	
50	2.5	0.6	0.7	8	614-XX-650-31-007000	605-XX-650-11-480000	
52	2.6	0.6	0.7	7	614-XX-652-31-007000	605-XX-652-11-480000	
50	2.5	0.9	1.0	8	614-XX-950-31-007000	605-XX-950-11-480000	XX=Plating Code See Below
52	2.6	0.9	1.0	7	614-XX-952-31-007000	605-XX-952-11-480000	
64	3.2	0.9	1.0	6	614-XX-964-31-007000	605-XX-964-11-480000	
SPECIFY PLATING CODE XX=					93		43 
Sleeve (Pin) 					200μ" Sn/Pb		200μ" Sn
Contact (Clip) 					30μ" Au		30μ" Au



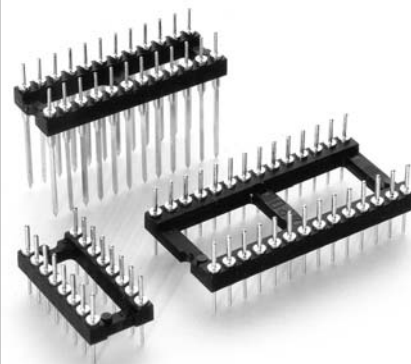
- Ultra low profile receptacles sit only .018" to .031" high above the board.
- Removable plastic carriers can be returned for reloading.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Series 614 use MM #0552-1, #0552-2 or #0442-0 pins. See pages 128 and 129 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below		
	A	B	C		Length = .136 (.039 Min. Mounting Hole)	Length = .136 (.039 Min. Mounting Hole)	Length = .170 (.039 Min. Mounting Hole)
10	0.5	0.2	0.3	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000
4	0.2	0.3	0.4	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000
6	0.3	0.3	0.4	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000
8	0.4	0.3	0.4	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000
10	0.5	0.3	0.4	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000
14	0.7	0.3	0.4	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000
16	0.8	0.3	0.4	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000
18	0.9	0.3	0.4	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000
20	1.0	0.3	0.4	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000
22	1.1	0.3	0.4	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000
24	1.2	0.3	0.4	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000
28	1.4	0.3	0.4	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000
20	1.0	0.4	0.5	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000
22	1.1	0.4	0.5	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000
24	1.2	0.4	0.5	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000
28	1.4	0.4	0.5	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000
32	1.6	0.4	0.5	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000
24	1.2	0.6	0.7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000
28	1.4	0.6	0.7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000
32	1.6	0.6	0.7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000
36	1.8	0.6	0.7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000
40	2.0	0.6	0.7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000
42	2.1	0.6	0.7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000
48	2.4	0.6	0.7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000
50	2.5	0.6	0.7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000
52	2.6	0.6	0.7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000
50	2.5	0.9	1.0	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000
52	2.6	0.9	1.0	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000
64	3.2	0.9	1.0	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000
SPECIFY PLATING CODE XX=					93	43◇	
Sleeve (Pin)					200μ" Sn/Pb	200μ" Sn	For RoHS compliance select ◇ plating code.
Contact (Clip)					30μ" Au	30μ" Au	



- Series 150 DIL Headers are equipped with .025" dia. pins MM #0290. See page 182 for details.
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 194 for details.
- Both series have .018" dia. solder tails which are pluggable into standard contacts.
- Insulators are high temperature thermoplastic.



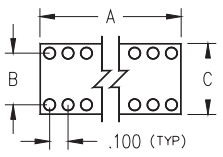
Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		Solder Tail	3 Level Wrapost		
10	0.5	0.2	0.3	40	150-XX-210-00-001000	153-10-210-00-001000	 For RoHS compliance select plating code.	
4	0.2	0.3	0.4	102	150-XX-304-00-001000	153-10-304-00-001000		
6	0.3	0.3	0.4	67	150-XX-306-00-001000	153-10-306-00-001000		
8	0.4	0.3	0.4	50	150-XX-308-00-001000	153-10-308-00-001000		
10	0.5	0.3	0.4	40	150-XX-310-00-001000	153-10-310-00-001000		
14	0.7	0.3	0.4	29	150-XX-314-00-001000	153-10-314-00-001000		
16	0.8	0.3	0.4	25	150-XX-316-00-001000	153-10-316-00-001000		
18	0.9	0.3	0.4	22	150-XX-318-00-001000	153-10-318-00-001000		
20	1.0	0.3	0.4	20	150-XX-320-00-001000	153-10-320-00-001000		
22	1.1	0.3	0.4	18	150-XX-322-00-001000	153-10-322-00-001000		
24	1.2	0.3	0.4	16	150-XX-324-00-001000	153-10-324-00-001000		
28	1.4	0.3	0.4	14	150-XX-328-00-001000	153-10-328-00-001000		
20	1.0	0.4	0.5	20	150-XX-420-00-001000	153-10-420-00-001000		
22	1.1	0.4	0.5	18	150-XX-422-00-001000	153-10-422-00-001000		
24	1.2	0.4	0.5	16	150-XX-424-00-001000	153-10-424-00-001000		
28	1.4	0.4	0.5	14	150-XX-428-00-001000	153-10-428-00-001000		
32	1.6	0.4	0.5	12	150-XX-432-00-001000	153-10-432-00-001000		
24	1.2	0.6	0.7	16	150-XX-624-00-001000	153-10-624-00-001000		
28	1.4	0.6	0.7	14	150-XX-628-00-001000	153-10-628-00-001000		
32	1.6	0.6	0.7	12	150-XX-632-00-001000	153-10-632-00-001000		
36	1.8	0.6	0.7	11	150-XX-636-00-001000	153-10-636-00-001000		
40	2.0	0.6	0.7	10	150-XX-640-00-001000	153-10-640-00-001000		
42	2.1	0.6	0.7	9	150-XX-642-00-001000	153-10-642-00-001000		
48	2.4	0.6	0.7	8	150-XX-648-00-001000	153-10-648-00-001000		
50	2.5	0.6	0.7	8	150-XX-650-00-001000	153-10-650-00-001000		
52	2.6	0.6	0.7	7	150-XX-652-00-001000	153-10-652-00-001000		
50	2.5	0.9	1.0	8	150-XX-950-00-001000	153-10-950-00-001000		
52	2.6	0.9	1.0	7	150-XX-952-00-001000	153-10-952-00-001000		
64	3.2	0.9	1.0	6	150-XX-964-00-001000	153-10-964-00-001000		
					SPECIFY PLATING CODE XX=	10	90	40
					Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn

For Electrical,
Mechanical & Enviromental
Data, See pg. 4

XX=Plating Code
See Below

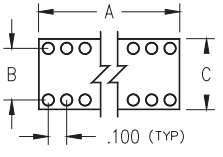
160...001 162/163...001

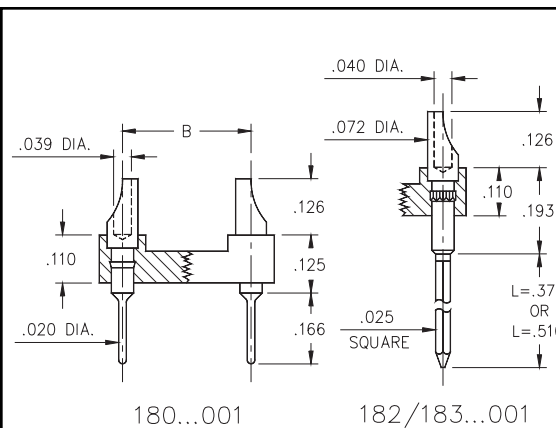
- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads.
- Series 160 terminations are pluggable .018" dia. solder tails MM #0282, See page 183 for details. Series 162 and 163 terminations are two or three level wrapposts MM #1106. See page 195 for details.
- Insulators are high temperature thermoplastic.

Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below					
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510			
10	0.5	0.2	0.3	41	160-XX-210-00-001000	162-10-210-00-001000	163-10-210-00-001000			
4	0.2	0.3	0.4	102	160-XX-304-00-001000	162-10-304-00-001000	163-10-304-00-001000			
6	0.3	0.3	0.4	67	160-XX-306-00-001000	162-10-306-00-001000	163-10-306-00-001000			
8	0.4	0.3	0.4	50	160-XX-308-00-001000	162-10-308-00-001000	163-10-308-00-001000			
10	0.5	0.3	0.4	40	160-XX-310-00-001000	162-10-310-00-001000	163-10-310-00-001000			
14	0.7	0.3	0.4	28	160-XX-314-00-001000	162-10-314-00-001000	163-10-314-00-001000			
16	0.8	0.3	0.4	25	160-XX-316-00-001000	162-10-316-00-001000	163-10-316-00-001000			
18	0.9	0.3	0.4	22	160-XX-318-00-001000	162-10-318-00-001000	163-10-318-00-001000			
20	1.0	0.3	0.4	20	160-XX-320-00-001000	162-10-320-00-001000	163-10-320-00-001000			
22	1.0	0.3	0.4	18	160-XX-322-00-001000	162-10-322-00-001000	163-10-322-00-001000			
24	1.2	0.3	0.4	16	160-XX-324-00-001000	162-10-324-00-001000	163-10-324-00-001000			
28	1.4	0.3	0.4	14	160-XX-328-00-001000	162-10-328-00-001000	163-10-328-00-001000			
20	1.0	0.4	0.5	20	160-XX-420-00-001000	162-10-420-00-001000	163-10-420-00-001000			
22	1.1	0.4	0.5	18	160-XX-422-00-001000	162-10-422-00-001000	163-10-422-00-001000			
24	1.2	0.4	0.5	16	160-XX-424-00-001000	162-10-424-00-001000	163-10-424-00-001000			
28	1.4	0.4	0.5	14	160-XX-428-00-001000	162-10-428-00-001000	163-10-428-00-001000			
32	1.6	0.4	0.5	12	160-XX-432-00-001000	162-10-432-00-001000	163-10-432-00-001000			
24	1.2	0.6	0.7	16	160-XX-624-00-001000	162-10-624-00-001000	163-10-624-00-001000			
28	1.4	0.6	0.7	14	160-XX-628-00-001000	162-10-628-00-001000	163-10-628-00-001000			
32	1.6	0.6	0.7	12	160-XX-632-00-001000	162-10-632-00-001000	163-10-632-00-001000			
36	1.8	0.6	0.7	11	160-XX-636-00-001000	162-10-636-00-001000	163-10-636-00-001000			
40	2.0	0.6	0.7	10	160-XX-640-00-001000	162-10-640-00-001000	163-10-640-00-001000			
42	2.1	0.6	0.7	9	160-XX-642-00-001000	162-10-642-00-001000	163-10-642-00-001000			
48	2.4	0.6	0.7	8	160-XX-648-00-001000	162-10-648-00-001000	163-10-648-00-001000			
50	2.5	0.6	0.7	8	160-XX-650-00-001000	162-10-650-00-001000	163-10-650-00-001000			
52	2.6	0.6	0.7	7	160-XX-652-00-001000	162-10-652-00-001000	163-10-652-00-001000			
50	2.5	0.9	1.0	8	160-XX-950-00-001000	162-10-950-00-001000	163-10-950-00-001000			
52	2.6	0.9	1.0	7	160-XX-952-00-001000	162-10-952-00-001000	163-10-952-00-001000			
64	3.2	0.9	1.0	6	160-XX-964-00-001000	162-10-964-00-001000	163-10-964-00-001000			
For RoHS compliance select ◇ plating code.					SPECIFY PLATING CODE XX=		10◇	90	40◇	
					Pin Plating 		10μ" Au	200μ" Sn/Pb	200μ" Sn	

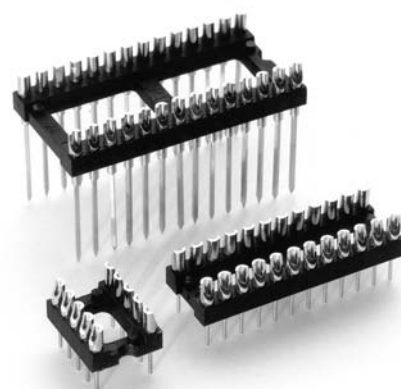
170...001 173...001

- Series 170 & 173 DIL headers are equipped with turret heads for wiring applications.
- Series 170 terminations are pluggable .020" dia. solder tails MM #0700, See page 183 for details. Series 173 terminations are three level wraposts MM #0730. See page 195 for details.
- Insulators are high temperature thermoplastic.

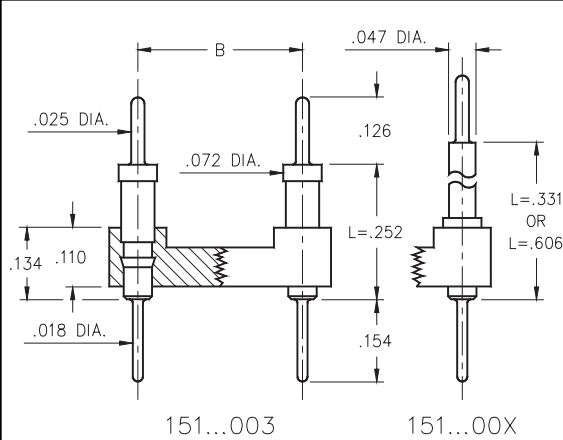
Total number of pins				Quantity per tube	Ordering Information				
	A	B	C		Solder Tail	3 Level Wrapost			
10	0.5	0.2	0.3	41	170-XX-210-00-001000	173-10-210-00-001000	RoHS 2002/95/EC For RoHS compliance select ◇ plating code.		
4	0.2	0.3	0.4	102	170-XX-304-00-001000	173-10-304-00-001000			
6	0.3	0.3	0.4	67	170-XX-306-00-001000	173-10-306-00-001000			
8	0.4	0.3	0.4	50	170-XX-308-00-001000	173-10-308-00-001000			
10	0.5	0.3	0.4	40	170-XX-310-00-001000	173-10-310-00-001000			
14	0.7	0.3	0.4	28	170-XX-314-00-001000	173-10-314-00-001000			
16	0.8	0.3	0.4	25	170-XX-316-00-001000	173-10-316-00-001000			
18	0.9	0.3	0.4	22	170-XX-318-00-001000	173-10-318-00-001000			
20	1.0	0.3	0.4	20	170-XX-320-00-001000	173-10-320-00-001000			
22	1.1	0.3	0.4	18	170-XX-322-00-001000	173-10-322-00-001000			
24	1.2	0.3	0.4	16	170-XX-324-00-001000	173-10-324-00-001000			
28	1.4	0.3	0.4	14	170-XX-328-00-001000	173-10-328-00-001000			
20	1.0	0.4	0.5	20	170-XX-420-00-001000	173-10-420-00-001000	For Electrical, Mechanical & Enviromental Data, See pg. 4		
22	1.1	0.4	0.5	18	170-XX-422-00-001000	173-10-422-00-001000			
24	1.2	0.4	0.5	16	170-XX-424-00-001000	173-10-424-00-001000			
28	1.4	0.4	0.5	14	170-XX-428-00-001000	173-10-428-00-001000			
32	1.6	0.4	0.5	12	170-XX-432-00-001000	173-10-432-00-001000			
24	1.2	0.6	0.7	16	170-XX-624-00-001000	173-10-624-00-001000			
28	1.4	0.6	0.7	14	170-XX-628-00-001000	173-10-628-00-001000			
32	1.6	0.6	0.7	12	170-XX-632-00-001000	173-10-632-00-001000			
36	1.8	0.6	0.7	11	170-XX-636-00-001000	173-10-636-00-001000			
40	2.0	0.6	0.7	10	170-XX-640-00-001000	173-10-640-00-001000			
42	2.1	0.6	0.7	9	170-XX-642-00-001000	173-10-642-00-001000			
48	2.4	0.6	0.7	8	170-XX-648-00-001000	173-10-648-00-001000			
50	2.5	0.6	0.7	8	170-XX-650-00-001000	173-10-650-00-001000			
52	2.6	0.6	0.7	7	170-XX-652-00-001000	173-10-652-00-001000			
50	2.5	0.9	1.0	8	170-XX-950-00-001000	173-10-950-00-001000	XX=Plating Code See Below		
52	2.6	0.9	1.0	7	170-XX-952-00-001000	173-10-952-00-001000			
64	3.2	0.9	1.0	6	170-XX-964-00-001000	173-10-964-00-001000			
SPECIFY PLATING CODE XX=					10◇	90	40◇		
Pin Plating 					10μ" Au	200μ" Sn/Pb	200μ" Sn		



- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications.
- Series 180 terminations are pluggable .020" dia. solder tails MM #8000, See page 183 for details. Series 182 and 183 terminations are two or three level wraposts MM #8301. See page 194 for details.
- Insulators are high temperature thermoplastic.



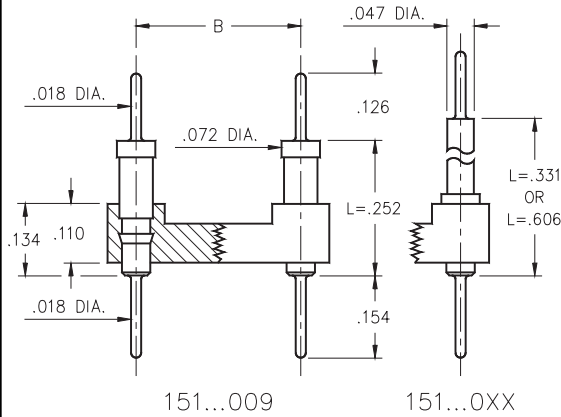
Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information RoHS 2002/95/EC		
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510
10	0.5	0.2	0.3	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000
4	0.2	0.3	0.4	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000
6	0.3	0.3	0.4	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000
8	0.4	0.3	0.4	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000
10	0.5	0.3	0.4	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000
14	0.7	0.3	0.4	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000
16	0.8	0.3	0.4	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000
18	0.9	0.3	0.4	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000
20	1.0	0.3	0.4	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000
22	1.1	0.3	0.4	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000
24	1.2	0.3	0.4	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000
28	1.4	0.3	0.4	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000
20	1.0	0.4	0.5	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000
22	1.1	0.4	0.5	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000
24	1.2	0.4	0.5	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000
28	1.4	0.4	0.5	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000
32	1.6	0.4	0.5	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000
24	1.2	0.6	0.7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000
28	1.4	0.6	0.7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000
32	1.6	0.6	0.7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000
36	1.8	0.6	0.7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000
40	2.0	0.6	0.7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000
42	2.1	0.6	0.7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000
48	2.4	0.6	0.7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000
50	2.5	0.6	0.7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000
52	2.6	0.6	0.7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000
50	2.5	0.9	1.0	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000
52	2.6	0.9	1.0	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000
64	3.2	0.9	1.0	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000
For RoHS compliance select plating code. PLATING CODE = 10					Pin Plating	10μ" Au	



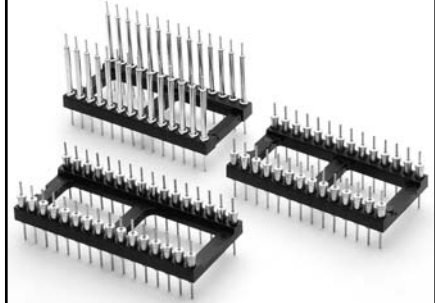
- Series 151 DIL Headers combine .025" dia. tails with pluggable .018" dia. solder tails.
- Series:
151...003 use MM #5503 pins
151...004 use MM #5504 pins
151...005 use MM #5505 pins
See page 181 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information RoHS 2002/95/EC		
	A	B	C		L = .252	L = .331	L = .606
10	0.5	0.2	0.3	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000
4	0.2	0.3	0.4	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000
6	0.3	0.3	0.4	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000
8	0.4	0.3	0.4	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000
10	0.5	0.3	0.4	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000
14	0.7	0.3	0.4	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000
16	0.8	0.3	0.4	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000
18	0.9	0.3	0.4	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000
20	1.0	0.3	0.4	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000
22	1.1	0.3	0.4	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000
24	1.2	0.3	0.4	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000
28	1.4	0.3	0.4	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000
20	1.0	0.4	0.5	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000
22	1.1	0.4	0.5	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000
24	1.2	0.4	0.5	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000
28	1.4	0.4	0.5	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000
32	1.6	0.4	0.5	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000
24	1.2	0.6	0.7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000
28	1.4	0.6	0.7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000
32	1.6	0.6	0.7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000
36	1.8	0.6	0.7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000
40	2.0	0.6	0.7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000
42	2.1	0.6	0.7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000
48	2.4	0.6	0.7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000
50	2.5	0.6	0.7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000
52	2.6	0.6	0.7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000
50	2.5	0.9	1.0	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000
52	2.6	0.9	1.0	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000
64	3.2	0.9	1.0	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000
For RoHS compliance select plating code. PLATING CODE = 10					Pin Plating	10μ" Au	



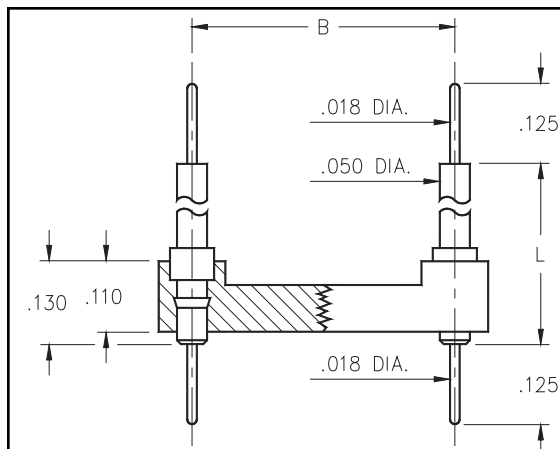
- Series 151 DIL Headers use .018" dia. solder tails at both ends make this header entirely pluggable.
- Series:
151...009 use MM #5509 pins
151...010 use MM #5510 pins
151...011 use MM #5511 pins
See pages 179 and 181 for details.
- Insulators are high temperature thermoplastic.



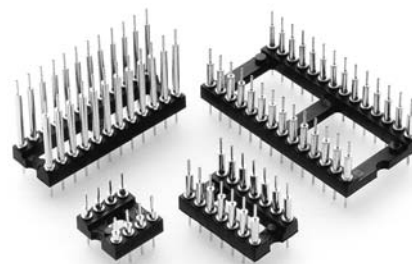
Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information RoHS 2002/95/EC		
	A	B	C		L = .252	L = .331	L = .606
10	0.5	0.2	0.3	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000
4	0.2	0.3	0.4	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000
6	0.3	0.3	0.4	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000
8	0.4	0.3	0.4	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000
10	0.5	0.3	0.4	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000
14	0.7	0.3	0.4	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000
16	0.8	0.3	0.4	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000
18	0.9	0.3	0.4	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000
20	1.0	0.3	0.4	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000
22	1.1	0.3	0.4	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000
24	1.2	0.3	0.4	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000
28	1.4	0.3	0.4	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000
20	1.0	0.4	0.5	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000
22	1.1	0.4	0.5	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000
24	1.2	0.4	0.5	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000
28	1.4	0.4	0.5	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000
32	1.6	0.4	0.5	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000
24	1.2	0.6	0.7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000
28	1.4	0.6	0.7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000
32	1.6	0.6	0.7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000
36	1.8	0.6	0.7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000
40	2.0	0.6	0.7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000
42	2.1	0.6	0.7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000
48	2.4	0.6	0.7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000
50	2.5	0.6	0.7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000
52	2.6	0.6	0.7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000
50	2.5	0.9	1.0	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000
52	2.6	0.9	1.0	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000
64	3.2	0.9	1.0	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000
For RoHS compliance select ◇ plating code.					PLATING CODE =	10◇	
					Pin Plating	10μ" Au	

- Series 134 DIL Headers combine .030" diameter pins with pluggable .020" diameter solder tails.
- Series:
 - 134...020 use MM #3402 pins
 - 134...010 use MM #3401 pins
 - 134...050 use MM #3405 pins
 - 134...000 use MM #3400 pins
 - 134...100 use MM #3410 pins
- See pages 182 for details.
- Insulators are high temperature thermoplastic.

Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information RoHS 2002/95/EC				
	A	B	C		L = .190	L = .236	L = .315	L = .605	L = 1.070
10	0.5	0.2	0.3	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000	134-10-210-00-000000	134-10-210-00-100000
4	0.2	0.3	0.4	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000
6	0.3	0.3	0.4	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000
8	0.4	0.3	0.4	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000
10	0.5	0.3	0.4	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000
14	0.7	0.3	0.4	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000
16	0.8	0.3	0.4	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000
18	0.9	0.3	0.4	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000
20	1.0	0.3	0.4	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000
22	1.1	0.3	0.4	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000
24	1.2	0.3	0.4	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000
28	1.4	0.3	0.4	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000
20	1.0	0.4	0.5	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000
22	1.1	0.4	0.5	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000
24	1.2	0.4	0.5	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000
28	1.4	0.4	0.5	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000
32	1.6	0.4	0.5	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000
24	1.2	0.6	0.7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000
28	1.4	0.6	0.7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000
32	1.6	0.6	0.7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000
36	1.8	0.6	0.7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000
40	2.0	0.6	0.7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000
42	2.1	0.6	0.7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000
48	2.4	0.6	0.7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000
50	2.5	0.6	0.7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000
52	2.6	0.6	0.7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000
50	2.5	0.9	1.0	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000
52	2.6	0.9	1.0	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000
64	3.2	0.9	1.0	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000
For RoHS compliance select ◇ plating code.					PLATING CODE =		10◇		
					Pin Plating		10μ" Au		



- Series 142 DIL Headers have double ended .018" diameter pluggable solder tails.
- Used to interconnect PC Boards with spacings of .210", .335", .585" or .835" Series 142 use MM #4259-1, -2, -3 or -4 pins. See page 179 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information			
	A	B	C		L=.210	L=.335	L=.585	L=.835
6	0.3	0.3	0.4	67	142-XX-306-00-591000	142-XX-306-00-592000	142-XX-306-00-593000	142-XX-306-00-594000
8	0.4	0.3	0.4	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000
14	0.7	0.3	0.4	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000
16	0.8	0.3	0.4	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000
18	0.9	0.3	0.4	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000
20	1.0	0.3	0.4	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000
24	1.2	0.3	0.4	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000
22	1.1	0.4	0.5	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000
24	1.2	0.6	0.7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000
28	1.4	0.6	0.7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000
32	1.6	0.6	0.7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000
40	2.0	0.6	0.7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000

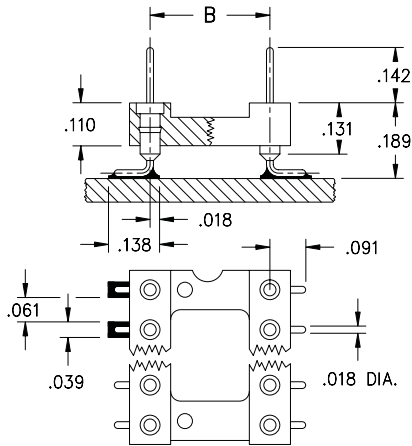
For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

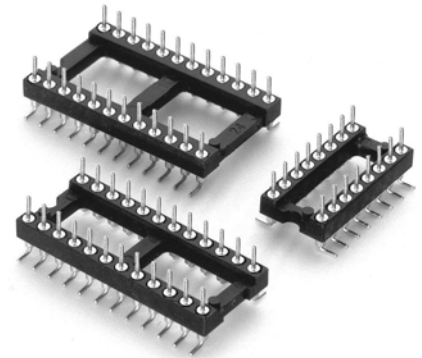
For RoHS compliance
select plating code.

RoHS
2002/95/EC

SPECIFY PLATING CODE XX=	10	90	40
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn

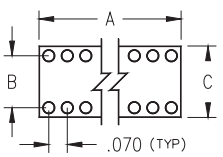
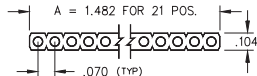


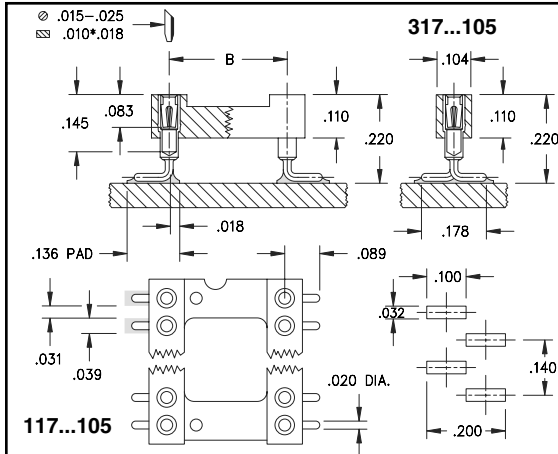
- Surface mount Gull Wing DIP sockets for devices featuring .100" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Series 150 use MM #3404 pins. See page 179 for details.
- Insulators are high temperature thermoplastic.



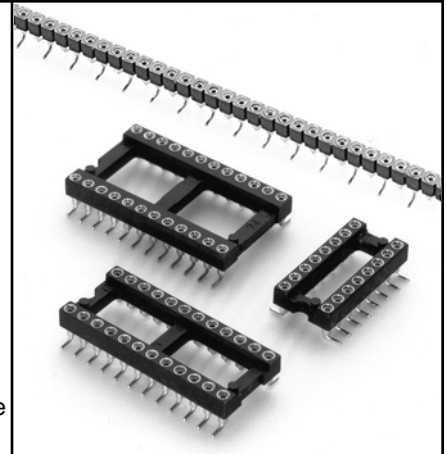
Total number of pins				Quantity per tube	Ordering Information				
	A	B	C						
10	0.5	0.2	0.3	40	150-10-210-00-106000				
4	0.2	0.3	0.4	102	150-10-304-00-106000				
6	0.3	0.3	0.4	67	150-10-306-00-106000				
8	0.4	0.3	0.4	50	150-10-308-00-106000				
10	0.5	0.3	0.4	40	150-10-310-00-106000				
14	0.7	0.3	0.4	29	150-10-314-00-106000				
16	0.8	0.3	0.4	25	150-10-316-00-106000				
18	0.9	0.3	0.4	22	150-10-318-00-106000				
20	1.0	0.3	0.4	20	150-10-320-00-106000				
22	1.1	0.3	0.4	18	150-10-322-00-106000				
24	1.2	0.3	0.4	16	150-10-324-00-106000				
28	1.4	0.3	0.4	14	150-10-328-00-106000				
20	1.0	0.4	0.5	20	150-10-420-00-106000				
22	1.1	0.4	0.5	18	150-10-422-00-106000				
24	1.2	0.4	0.5	16	150-10-424-00-106000				
28	1.4	0.4	0.5	14	150-10-428-00-106000				
32	1.6	0.4	0.5	12	150-10-432-00-106000				
24	1.2	0.6	0.7	16	150-10-624-00-106000				
28	1.4	0.6	0.7	14	150-10-628-00-106000				
32	1.6	0.6	0.7	12	150-10-632-00-106000				
36	1.8	0.6	0.7	11	150-10-636-00-106000				
40	2.0	0.6	0.7	10	150-10-640-00-106000				
42	2.1	0.6	0.7	9	150-10-642-00-106000				
48	2.4	0.6	0.7	8	150-10-648-00-106000				
50	2.5	0.6	0.7	8	150-10-650-00-106000				
52	2.6	0.6	0.7	7	150-10-652-00-106000				
50	2.5	0.9	1.0	8	150-10-950-00-106000				
52	2.6	0.9	1.0	7	150-10-952-00-106000				
64	3.2	0.9	1.0	6	150-10-964-00-106000				
Coplanarity .005". For Pin Counts >20 positions consult Technical Support.					For Electrical, Mechanical & Environmental Data, See pg. 4 PLATING CODE = 10◇ Pin Plating 10μ" Au				
					RoHS 2002/95/EC For RoHS compliance select ◇ plating code.				

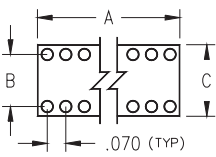
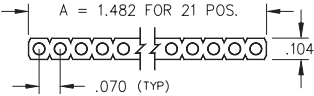
- High density DIP sockets and strips for devices featuring .070" lead spacing.
- Solder tails use MM #1802 receptacles, See page 140 for details. Wraposts use MM #1702-2 or 1703-3 receptacles, See page 166 for details.
- Receptacles use Hi-Rel, 4-finger #30 contact and 6-finger #43 contact, both rated at 3 amps. See pages 218 & 220.
- Insulators are high temp. thermoplastic.

Total number of pins				Quantity per tube	For Electrical, Mechanical & Environmental Data, See pg. 4 Ordering Information XX=Plating Code See Below					
	A	B	C		Solder Tail	2 Level Wrapost L = .370	3 Level Wrapost L = .510			
					OPEN FRAME DIP SOCKET					
16	0.572	0.3	0.39	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000			
28	0.992	0.4	0.49	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000			
30	1.062	0.4	0.49	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000			
48	1.692	0.4	0.49	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000			
20	0.712	0.6	0.69	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000			
28	0.992	0.6	0.69	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000			
40	1.412	0.6	0.69	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000			
42	1.482	0.6	0.69	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000			
48	1.692	0.6	0.69	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000			
52	1.832	0.6	0.69	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000			
56	1.972	0.6	0.69	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000			
64	2.252	0.6	0.69	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000			
68	2.392	0.6	0.69	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000			
64	2.252	0.75	0.84	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000			
					CLOSED FRAME DIP SOCKET					
64	2.252	0.75	0.84	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000			
					SINGLE ROW STRIP SOCKET					
					If desired, we will supply any length up to 21 pins.					
21	1.482	---	.104	-	317-93-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000			
For RoHS compliance select ◇ plating code.					SPECIFY PLATING CODE XX=		93		43◇	
					Sleeve (Pin) 		200μ" Sn/Pb		200μ" Sn	
					Contact (Clip) 		30μ" Au		30μ" Au	



- Surface mount Gull Wing DIP sockets for devices featuring .070" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Series 117 and 317 use MM #1802 pins. See page 140 for details.
- Insulators are high temperature thermoplastic.

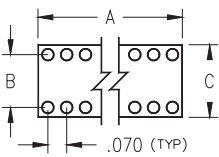
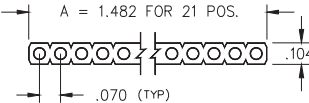


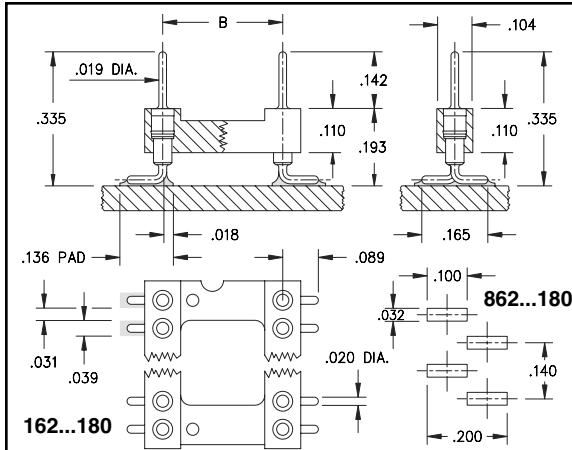
Total number of pins				Quantity per tube	Ordering Information									
	A	B	C											
16	0.572	0.3	0.39	35	117-XX-316-41-105000 117-XX-428-41-105000 117-XX-430-41-105000 117-XX-448-41-105000 117-XX-620-41-105000 117-XX-628-41-105000 117-XX-640-41-105000 117-XX-642-41-105000 117-XX-648-41-105000 117-XX-652-41-105000 117-XX-656-41-105000 117-XX-664-41-105000 117-XX-668-41-105000 117-XX-764-41-105000 For RoHS compliance select  plating code. For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below									
28	0.992	0.4	0.49	20										
30	1.062	0.4	0.49	18										
48	1.692	0.4	0.49	12										
20	0.712	0.6	0.69	28										
28	0.992	0.6	0.69	20										
40	1.412	0.6	0.69	14										
42	1.482	0.6	0.69	13										
48	1.692	0.6	0.69	12										
52	1.832	0.6	0.69	11										
56	1.972	0.6	0.69	10										
64	2.252	0.6	0.69	9										
68	2.392	0.6	0.69	8										
64	2.252	0.75	0.84	8										
					SINGLE ROW STRIP HEADER If desired, we will supply any length up to 21 pins.									
21	1.482	---	.104	-	317-XX-121-41-105000									
Coplanarity .005". For Pin Counts >10 positions consult Technical Support.					SPECIFY PLATING CODE XX=		13 		93			43 		
					Sleeve (Pin) 		10μ" Au		200μ" Sn/Pb		200μ" Sn			
					Contact (Clip) 		30μ" Au		30μ" Au		30μ" Au			

162...180

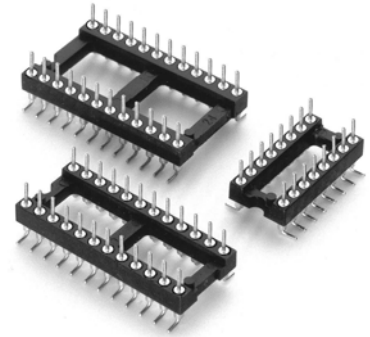
862...180

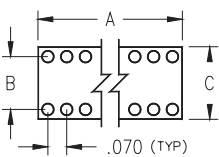
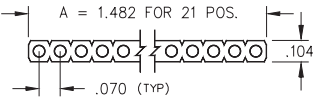
- High density DIP headers and strips for devices featuring .070" lead spacing.
- Series 162 DIP headers use MM #6218 pins. See page 175 for details.
- Series 862 strip headers use MM #6218 pins. See page 175 for details.
- Insulators are high temperature thermoplastic.

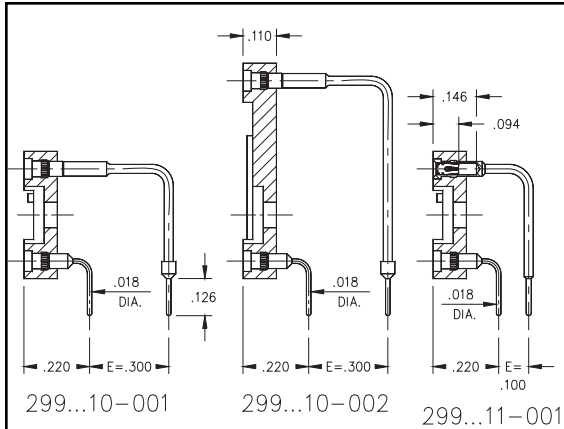
Total number of pins				Quantity per tube	Ordering Information				
	A	B	C						
16	0.572	0.3	0.39	35	162-XX-316-00-180000 162-XX-428-00-180000 162-XX-430-00-180000 162-XX-448-00-180000 162-XX-620-00-180000 162-XX-628-00-180000 162-XX-640-00-180000 162-XX-642-00-180000 162-XX-648-00-180000 162-XX-652-00-180000 162-XX-656-00-180000 162-XX-664-00-180000 162-XX-668-00-180000 162-XX-764-00-180000 For Electrical, Mechanical & Enviromental Data, See pg. 4 XX=Plating Code See Below				
28	0.992	0.4	0.49	20					
30	1.062	0.4	0.49	18					
48	1.692	0.4	0.49	12					
20	0.712	0.6	0.69	28					
28	0.992	0.6	0.69	20					
40	1.412	0.6	0.69	14					
42	1.482	0.6	0.69	13					
48	1.692	0.6	0.69	12					
52	1.832	0.6	0.69	11					
56	1.972	0.6	0.69	10					
64	2.252	0.6	0.69	9					
68	2.392	0.6	0.69	8					
64	2.252	0.75	0.84	8					
					SINGLE ROW STRIP HEADER If desired, we will supply any length up to 21 pins.				
21	1.482	- - -	.104	-	862-XX-121-00-180000				
					SPECIFY PLATING CODE XX=	10◇	90	40◇	
					Pin Plating 	10μ" Au	200μ" Sn/Pb	200μ" Sn	



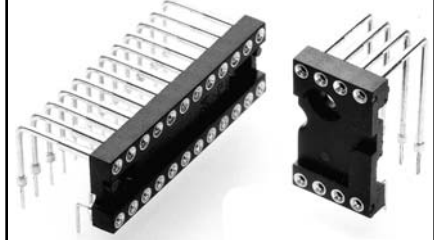
- Surface mount Gull Wing DIP sockets and strips for devices featuring .070" lead spacing.
- Gull wing terminals for max. strength and easy in-circuit test.
- Series 162 and Series 862 use MM #6218 pins. See page 175 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information							
	A	B	C									
16	0.572	0.3	0.39	35	162-XX-316-30-180000 162-XX-428-30-180000 162-XX-430-30-180000 162-XX-448-30-180000  For RoHS compliance select  plating code.							
28	0.992	0.4	0.49	20								
30	1.062	0.4	0.49	18								
48	1.692	0.4	0.49	12								
20	0.712	0.6	0.69	28	162-XX-620-30-180000 162-XX-628-30-180000 162-XX-640-30-180000 162-XX-642-30-180000 162-XX-648-30-180000 162-XX-652-30-180000 162-XX-656-30-180000 162-XX-664-30-180000 162-XX-668-30-180000 162-XX-764-30-180000  							
28	0.992	0.6	0.69	20								
40	1.412	0.6	0.69	14								
42	1.482	0.6	0.69	13								
48	1.692	0.6	0.69	12								
52	1.832	0.6	0.69	11								
56	1.972	0.6	0.69	10								
64	2.252	0.6	0.69	9								
68	2.392	0.6	0.69	8								
64	2.252	0.75	0.84	8								
									SINGLE ROW STRIP SMT HEADER If desired, we will supply any length up to 21 pins.			
21	1.482	- - -	.104	-					862-XX-121-30-180000			
Coplanarity .005". For Pin Counts >10 positions consult Technical Support.					SPECIFY PLATING CODE XX=		10 	90	40 			
					Pin Plating 		10μ" Au	200μ" Sn/Pb	200μ" Sn			



- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (standard) or .100" row spacing.
- Series 299 use MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 137 & 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temperature thermoplastic.



Total number of pins				Quantity per tube	Ordering Information	
	A	B	C		E=.300	E=.100
6	0.3	0.3	0.4		299-XX-306-10-001000	299-XX-306-11-001000
8	0.4	0.3	0.4		299-XX-308-10-001000	299-XX-308-11-001000
10	0.5	0.3	0.4		299-XX-310-10-001000	299-XX-310-11-001000
12	0.6	0.3	0.4	33	299-XX-312-10-001000	299-XX-312-11-001000
14	0.7	0.3	0.4	29	299-XX-314-10-001000	299-XX-314-11-001000
16	0.8	0.3	0.4	25	299-XX-316-10-001000	299-XX-316-11-001000
18	0.9	0.3	0.4	22	299-XX-318-10-001000	299-XX-318-11-001000
20	1.0	0.3	0.4	20	299-XX-320-10-001000	299-XX-320-11-001000
24	1.2	0.3	0.4	16	299-XX-324-10-001000	299-XX-324-11-001000
8	0.4	0.6	0.7	50	299-XX-608-10-002000	
10	0.5	0.6	0.7	40	299-XX-610-10-002000	
12	0.6	0.6	0.7	34	299-XX-612-10-002000	
14	0.7	0.6	0.7	28	299-XX-614-10-002000	
16	0.8	0.6	0.7	25	299-XX-616-10-002000	
18	0.9	0.6	0.7	22	299-XX-618-10-002000	
20	1.0	0.6	0.7	20	299-XX-620-10-002000	
22	1.1	0.6	0.7	18	299-XX-622-10-002000	
24	1.2	0.6	0.7	16	299-XX-624-10-002000	
26	1.3	0.6	0.7	15	299-XX-626-10-002000	
28	1.4	0.6	0.7	14	299-XX-628-10-002000	
30	1.5	0.6	0.7	13	299-XX-630-10-002000	
32	1.6	0.6	0.7	12	299-XX-632-10-002000	
36	1.8	0.6	0.7	11	299-XX-636-10-002000	
40	2.0	0.6	0.7	10	299-XX-640-10-002000	

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

RoHS
2002/95/EC

SPECIFY PLATING CODE XX=			93			43 ◇	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	

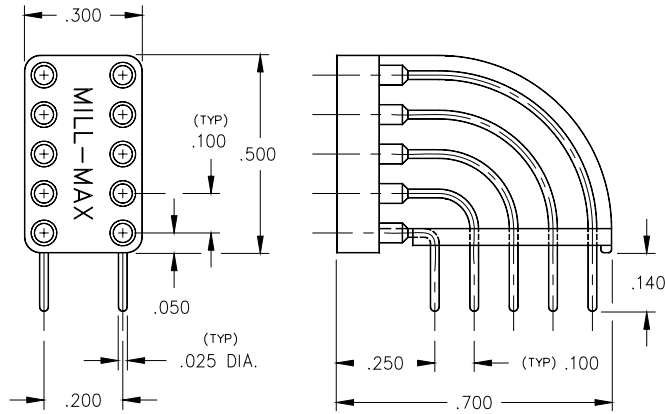


Fig. 1

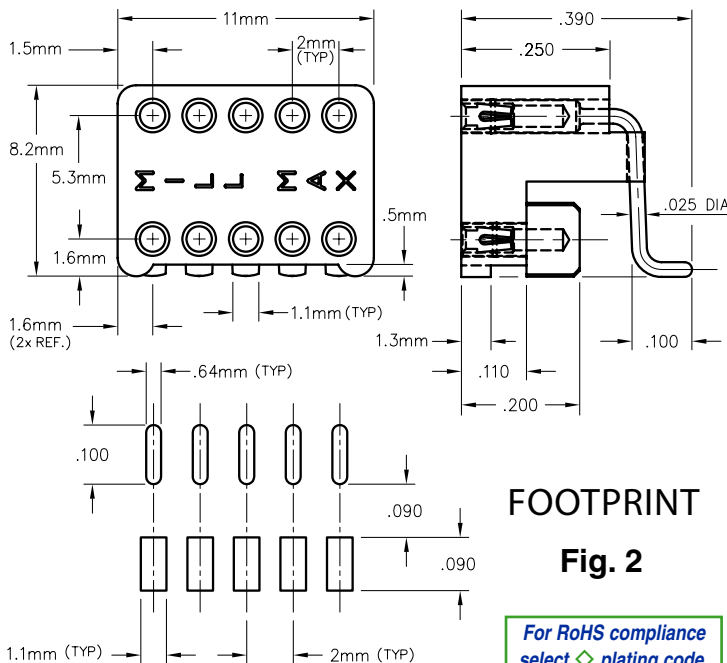
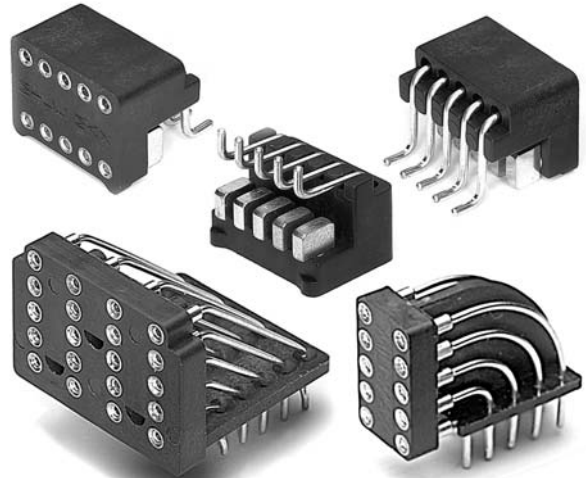


Fig. 2

- Series 296, 299 & 594 vertical display sockets are used to mount dot matrix and 7-segment LED displays at the edge of and perpendicular to a printed circuit board. This positions the display directly behind the translucent front panel of the equipment.
- Series 299 & 594 are through hole mount and can be wave or intrusive reflow soldered.
- Series 296 is surface mount and can be supplied on carrier tape for automated "pick 'n place" assembly.
- Insulators are high temp. Nylon 46, suitable for all soldering processes including "lead-free".

Fig.	No. of pins	Ordering Information		
1	10	299-99-210-12-001800 Plating Code RoHS 2002/95/EC		
2	10	296-XX-010-30-691800 (Discrete sockets) 296-XX-010-30-692800 (Supplied on 24mm wide carrier tape per EIA-481: 450 per 13" reel)		
3	20	594-XX-020-01-007032 Plating Code RoHS 2002/95/EC		
SPECIFY PLATING CODE XX=		99	44 	
Sleeve (Pin) 		200μ" Sn/Pb	200μ" Sn	
Contact (Clip) 		200μ" Sn/Pb	200μ" Sn	

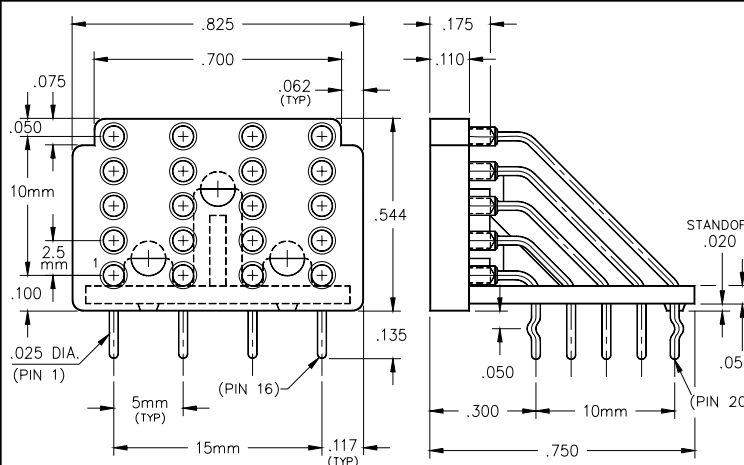


Fig. 3

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

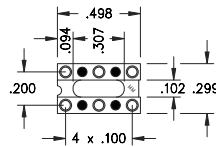
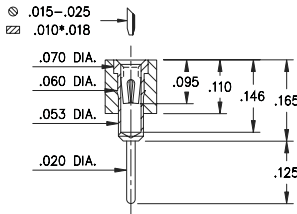


Fig. 1

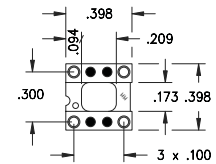


Fig. 2

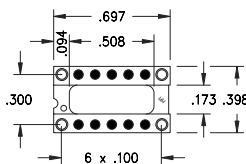


Fig. 3

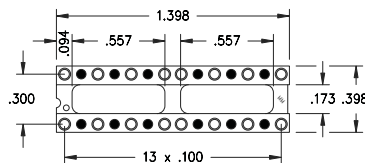
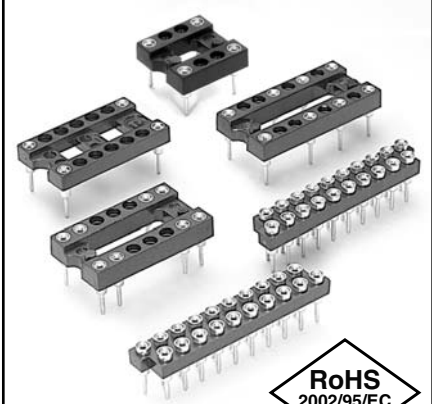


Fig. 4

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on .100" grid.
- Additional Relay DIP socket patterns are available on Page 64.
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns.
- Series 110 and 410 use MM #1001 receptacles. See page 136 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Selectively Loaded Sockets For Dual-In-Line Relays

	No. of pins	Ordering Information
Fig. 1	6	110-XX-210-10-001000
Fig. 2	4	110-XX-308-10-001000
Fig. 3	4	110-XX-314-10-001000
Fig. 4	16	110-XX-328-10-001000

Staggered (Zig-Zag) Strip Sockets

Dim 'A'	No. of pins	Insulator Body	Ordering Information
0.747	14	Left, Stackable	410-93-214-10-001000
0.747	14	Right, Stackable	410-93-214-10-002000
0.847	16	Left, Stackable	410-93-216-10-001000
0.847	16	Right, Stackable	410-93-216-10-002000
1.047	20	Left, Stackable	410-93-220-10-001000
1.047	20	Right, Stackable	410-93-220-10-002000
1.247	24	Left, Stackable	410-93-224-10-001000
1.247	24	Right, Stackable	410-93-224-10-002000
1.447	28	Left, Stackable	410-93-228-10-001000
1.447	28	Right, Stackable	410-93-228-10-002000

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13 ◇	93	43 ◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au

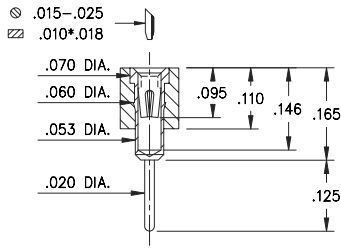


Fig. 1

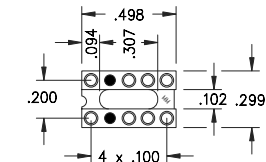


Fig. 2

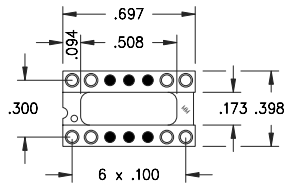


Fig. 3

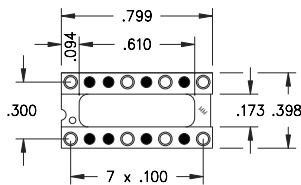


Fig. 4

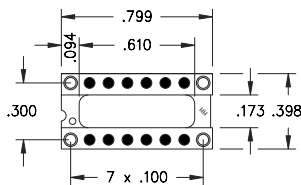


Fig. 5

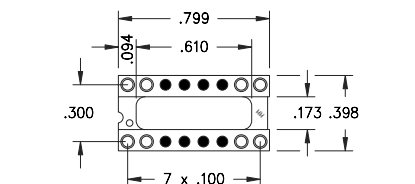
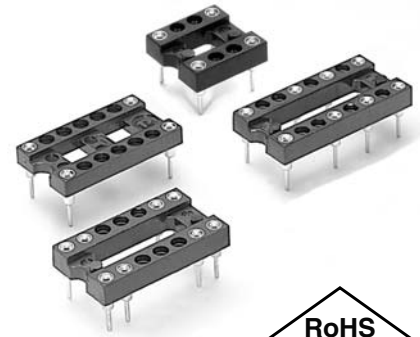


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on .100" grid.
- Additional Relay DIP socket patterns are available on Page 63.
- Series 110 use MM #1001 receptacles. See page 136 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 110...002	8 Position Relay Socket
	110-XX-210-10-002000	
Fig. 2	Series 110...002	8 Position Relay Socket
	110-XX-314-10-002000	
Fig. 3	Series 110...003	8 Position Relay Socket
	110-XX-316-10-003000	
Fig. 4	Series 110...004	4 Position Relay Socket
	110-XX-316-10-004000	
Fig. 5	Series 110...005	8 Position Relay Socket
	110-XX-316-10-005000	
Fig. 6	Series 110...002	14 Position Relay Socket
	110-XX-328-10-002000	

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇		93			43◇	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	



SIP SOCKETS, HEADERS AND CARRIERS QUICK SELECTOR CHART

USE THIS CONVENIENT CHART TO SELECT THE RIGHT SIP INTERCONNECT FOR YOUR APPLICATION

- 1) Determine the style of pin needed to meet your requirement.
- 2) Select the appropriate insulator frame, pitch and grid spacing.
- 3) Turn to indicated page for detail and ordering information.
- 4) For custom assembly in a selected insulator, contact our applications engineers.

SINGLE & DOUBLE ROW SIP SOCKETS, HEADERS AND CARRIERS

	Select Pin	.015" - .025" Diameter Pins								.025" - .037" & .025" Sq. Diameter Pins								.037-.043" Dia. Pins	Slotted, Turret, Solder Cup		Socket Carriers			
		Vertical Socket	Right Angle Socket	Vertical Pin	Right Angle Pin	Surface Mount Pin	Surface Mount Socket	1-4 Level Wrapost Socket	Pluggable Wrapost Socket	.020/.030 Elevated Solder Tail Pin	Surface Mount Socket & Headers	Solderless Press-fit Socket	Solderless Press-fit Pin	Vertical Socket	OFP Pass Through Socket	Right Angle Socket	Vertical Pin		Right Angle Pin	Vertical Socket	Solder Tail	Wrapost Tail	Solder Tail	Low Profile
	.050"Grid Single Row	66	67	66	67	68 69	68 69																	
	.050"Grid Double Row	66	67	66	67	68	68																	
	2mm Grid Single Row	70	72	70	72	71	71																	
	2mm Grid Double Row	70	72	70	72	71	71																	
	.200" Grid Single Row												88		88		88							
	.100" Grid Single Row	73 79 89 91 97	73 79 102 103 106	73 79 102 103 106	73 79 102 103 106	76 77 78	69 76 77 78	93	95	105	77 85	83	83	80 81	87	81	80 81	81	86	75 108	110	99	100	101
	.100" Grid Double Row	74 79 90 92 98	74 79 102 104 107	74 79 102 104 107	74 79 102 104 107	76 78	76 78	94	96		85	84	84	80 82	87	82	80 82	82	86	75 109	111	99	100	101

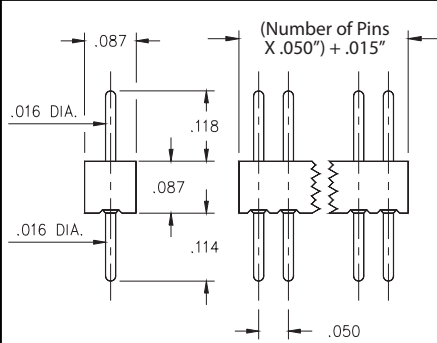


Fig. 1

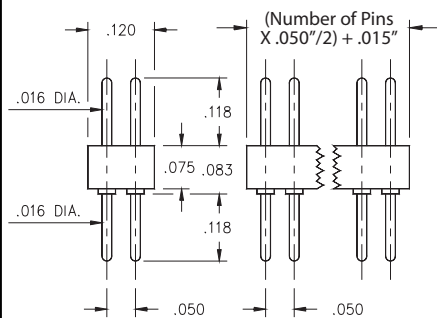


Fig. 2

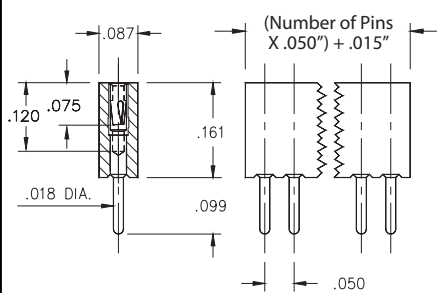


Fig. 3

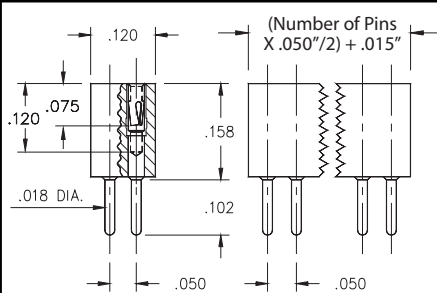


Fig. 4

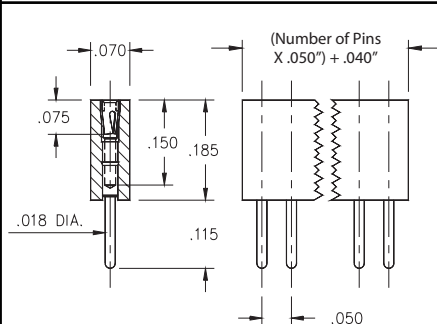
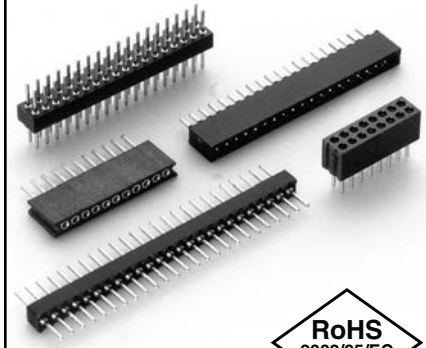


Fig. 5

- Series 850 single and double row interconnects have .050" pin spacing & permit board stacking as low as .248"
- Pin headers have .016" dia. pins (MM #4006-0). See page 175 for details.
- MM #0467 and MM #4890 receptacles use Hi-Rel, 3-finger BeCu #11 contacts rated at 3 amps. (#11 contact accepts pin diameters from .015"-.020"). See pages 129 and 131 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.



RoHS
2002/95/EC

Ordering Information

Fig. 1	Single Row .087" Profile Pin Header				
	850-XX-0__-10-001000 Specify # of pins 01-50				
Fig. 2	Double Row .075" Profile Pin Header				
	852-XX-__-10-001000 Specify # of pins 002-100				
<i>For Electrical, Mechanical & Enviromental Data, See pg. 4</i> XX=Plating Code See Below <i>For RoHS compliance select ◇ plating code.</i>					
SPECIFY PLATING CODE XX=		10◇	90	40◇	
Pin Plating		10μ" Au	200μ" Sn/Pb	200μ" Sn	
Fig. 3	Single Row .161" Profile Socket				
	851-XX-0__-10-001000 Specify # of pins 01-50				
Fig. 4	Double Row .161" Profile Socket				
	853-XX-__-10-001000 Specify # of pins 002-100				
Fig. 5	Single Row .185" Profile Socket				
	851-XX-0__-10-002000 Specify # of pins 01-77				
<i>For Electrical, Mechanical & Enviromental Data, See pg. 4</i> XX=Plating Code See Below <i>For RoHS compliance select ◇ plating code.</i>					
SPECIFY PLATING CODE XX=			93	99	43◇
Sleeve (Pin)			200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn
Contact (Clip)			30μ" Au	200μ" Sn/Pb	30μ" Au

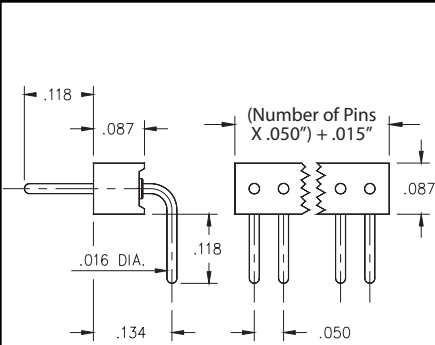


Fig. 1

- Series 850 and 851 interconnects are available in single and double row form.
- 850 & 852 series headers use MM #4006-1 and #4006-2 pins. See page 175 details.
- 851 & 853 series sockets use MM #4890-1 and #4890-2 receptacles, that accept pin diameters from .015"-.021" See page 131 for details.
- Insulators are high temp. thermoplastic.

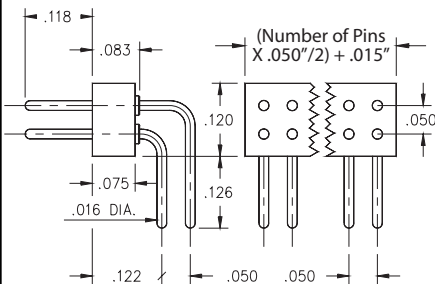
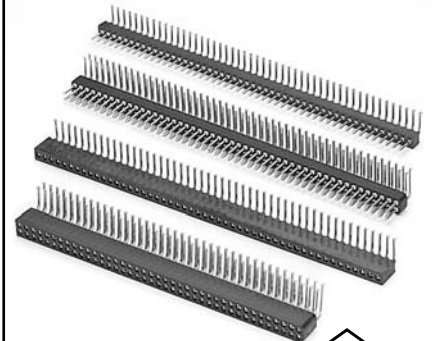


Fig. 2

Fig. 1

Fig. 2

Ordering Information

Fig. 1	Single Row	Right Angle Pin Header
	850-XX-0__-20-001000	Specify # of pins → 01-50
Fig. 2	Double Row	Right Angle Pin Header
	852-XX-__-20-001000	Specify # of pins → 002-100

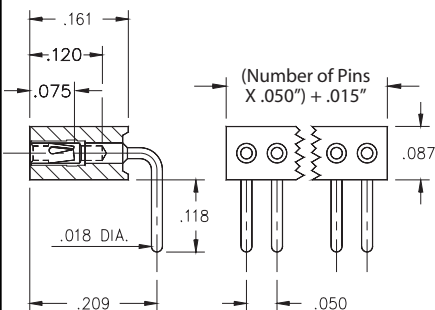


Fig. 3

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3

Fig. 4

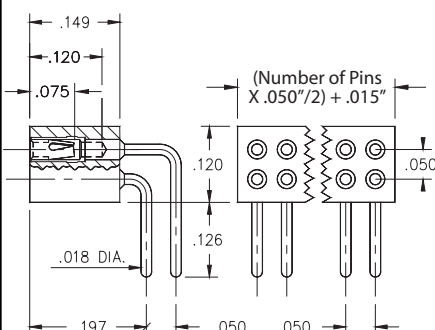


Fig. 4

Fig. 3	Single Row	Right Angle Socket
	851-XX-0__-20-001000	Specify # of pins → 01-50
Fig. 4	Double Row	Right Angle Socket
	853-XX-__-20-001000	Specify # of pins → 002-100

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99		43◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb		30μ" Au	

For RoHS compliance
select plating code.

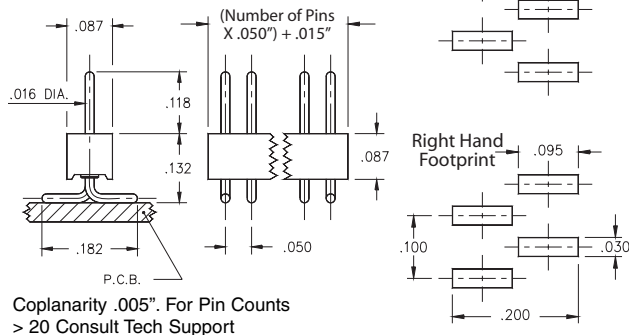


Fig. 1

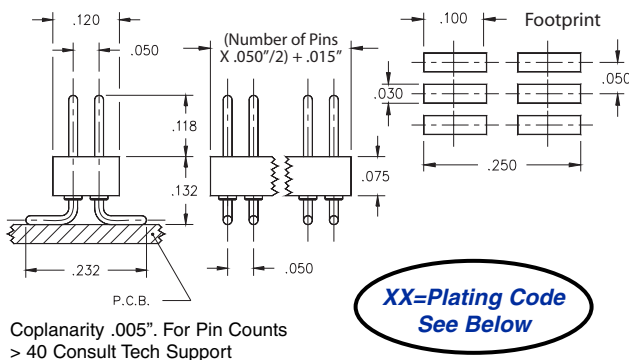


Fig. 2

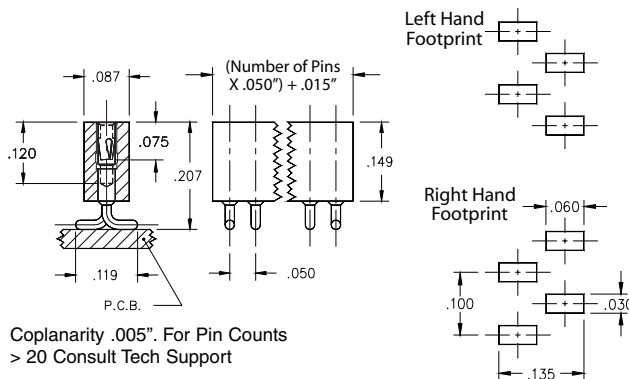


Fig. 3

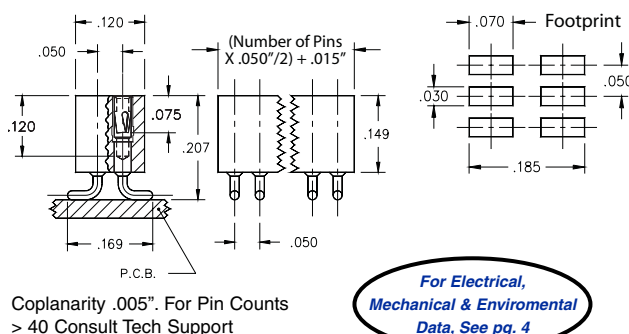


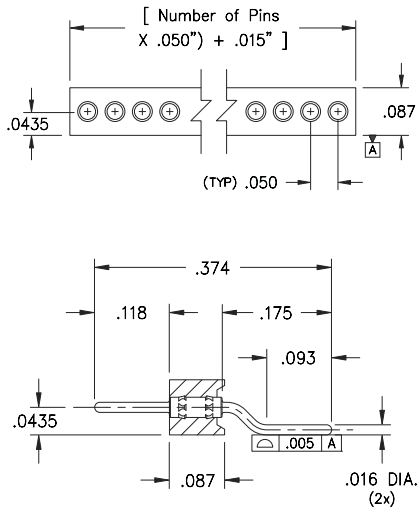
Fig. 4

- Single row interconnects having an even number of pins are now available with a left or right hand footprint.
- Headers (850 & 852) use MM# 4006 pins. See page 175 for details.
- Sockets (851 & 853) use MM# 4890-0 receptacles and accept pin diameters from .015-.021. See page 131 for details.
- Coplanarity .005" (Single Row max 20 pins; Double Row max 40 pins). For higher pin counts contact technical support.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins			
	850-XX-0	-30-001000	Specify # of pins	01-50
Fig. 1R	Single Row Header, Right Hand Footprint Even # of pins			
	850-XX-0	-30-002000	Specify even # of pins	02-50
Fig. 2	Double Row Header, Even # of pins			
	852-XX-	-30-001000	Specify even # of pins	004-100
SPECIFY PLATING CODE XX=		10	90	40
Pin Plating		10μ" Au	200μ" Sn/Pb	200μ" Sn
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins			
	★ 44 Plating Non-Standard	851-XX-0	-30-001000	Specify # of pins 01-50
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins			
		851-XX-0	-30-002000	Specify even # of pins 02-50
Fig. 4	Double Row Socket, Even # of pins			
	★ 44 Plating Non-Standard	853-XX-	-30-001000	Specify even # of pins 004-100
SPECIFY PLATING CODE XX=		93	99	43 44
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn 200μ" Sn
Contact (Clip)		30μ" Au	200μ" Sn/Pb	30μ" Au 200μ" Sn



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

Fig. 1

- Series 850 horizontal Surface Mount Z-Bend headers are available with .016" dia. solder tails and pluggable pins (MM #4006-1). See page 175 for details.
- Series 851 horizontal Surface Mount Z-Bend sockets use MM #4890-1 receptacles that accept pin diameters from .015"-.020". See pages 131 for details.
- Insulators are high temp. thermoplastic.



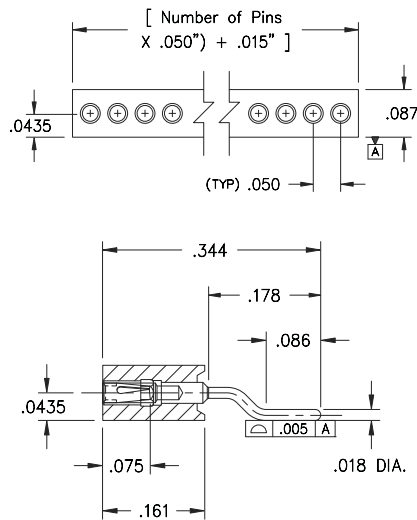
Ordering Information

Fig. 1

Single Row Surface Mount Z-Bend Header

850-10-0__-40-001000

Specify # of pins → 02-20



Coplanarity .005". For Pin Counts >20 positions consult Technical Support.

Fig. 2

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10 ◇			
Pin Plating	10μ" Au			

Fig. 2

Single Row Surface Mount Z-Bend Socket

851-13-0__-40-001000

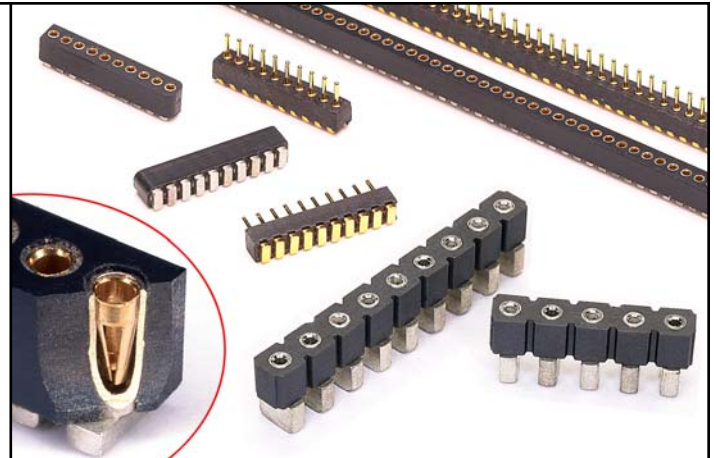
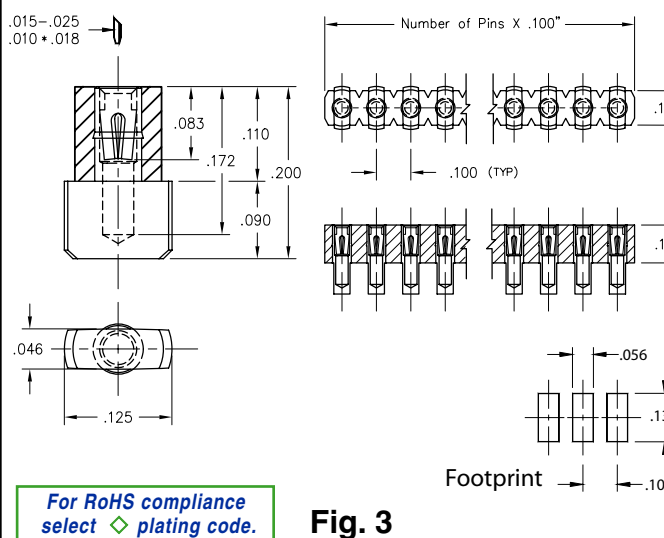
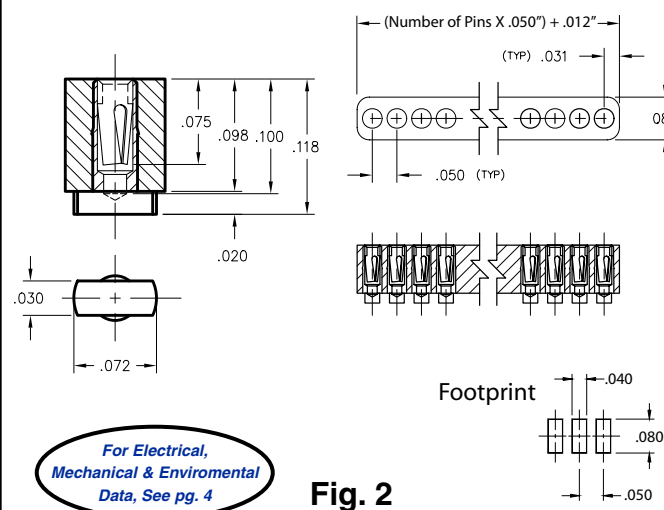
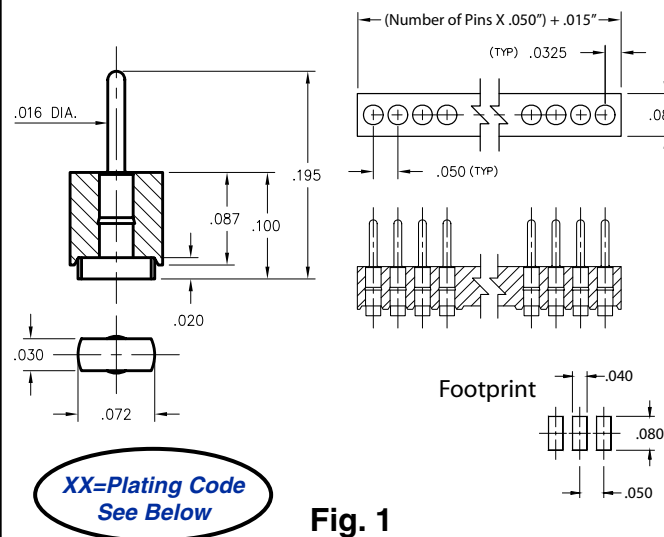
Specify # of pins → 02-20

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13						
Sleeve (Pin)	10μ" Au						
Contact (Clip)	30μ" Au						



- Series 340 and 399 interconnects are single row headers and sockets having unique surface mount "block" terminals.
- "Block" termination makes the interconnects "self-standing". This also minimizes profile and reduces the footprint compared with traditional "gull wing" designs.
- Series 399 is a matched pair of .050" pitch sockets and headers with a mated height of only .218".
- Series 340 is a .100" pitch SIP socket using Mill-Max #30 contact (Data on page 218). The profile is only .200".
- Insulators are high temp. thermoplastic, suitable for all soldering processes.



Ordering Information

Fig. 1	Single Row Header, .050" Grid		
	399-10-0XX-00-310000		
	Plating Code	Specify # of pins 02-50	
	PLATING CODE	10 $\diamond$	
	Pin Plating	10 μ Au	
Fig. 2	Single Row Socket, .050" Grid		
	399-XX-0XX-21-300000		
	Plating Code	Specify # of pins 02-50	
	SPECIFY PLATING CODE XX=	91	41 $\diamond$
	Sleeve (Pin)	200 μ Sn/Pb	200 μ Sn
	Contact (Clip)	10 μ Au	10 μ Au
Fig. 3	Single Row Socket, .100" Grid		
	340-XX-1XX-30-780100		
	Plating Code	Specify # of pins 02-64	
	SPECIFY PLATING CODE XX=	99	44 $\diamond$
	Sleeve (Pin)	200 μ Sn/Pb	200 μ Sn
	Contact (Clip)	200 μ Sn/Pb	200 μ Sn

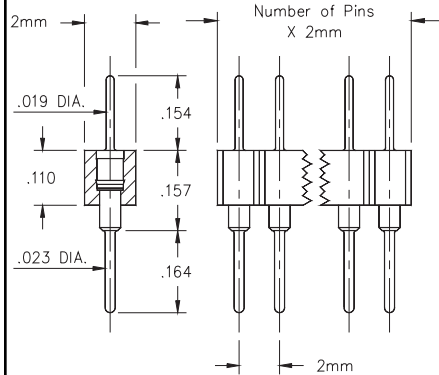


Fig. 1

- Series 830 single and double row interconnects have 2mm pin spacing and permit board stacking as low as .322".
- Pin headers (830 & 832 series) use MM #5012 pins. See page 175 for details.
- Sockets (831 & 833 series) use MM #1802 receptacles and accept pin diameters from .015"-.025". See page 140 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.

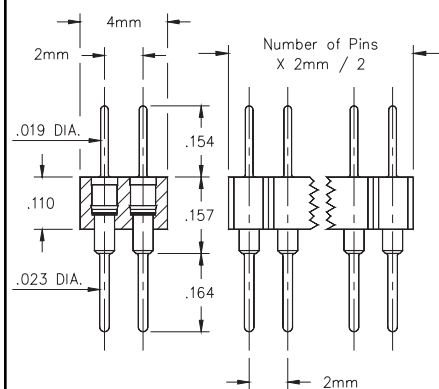


Fig. 2

Ordering Information

Fig. 1

Single Row Pin Header

830-XX-0__-10-001000

Specify # of pins → 01-50

Fig. 2

Double Row Pin Header

832-XX-__-10-001000

Specify # of pins → 002-100

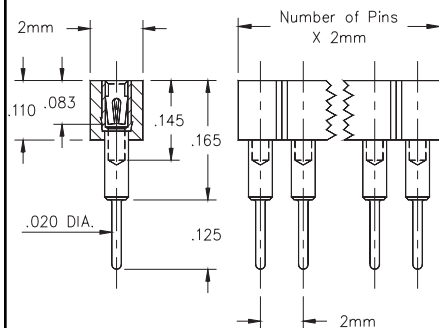


Fig. 3

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3

Single Row Socket

831-XX-0__-10-001000

Specify # of pins → 01-50

Fig. 4

Double Row Socket

833-XX-__-10-001000

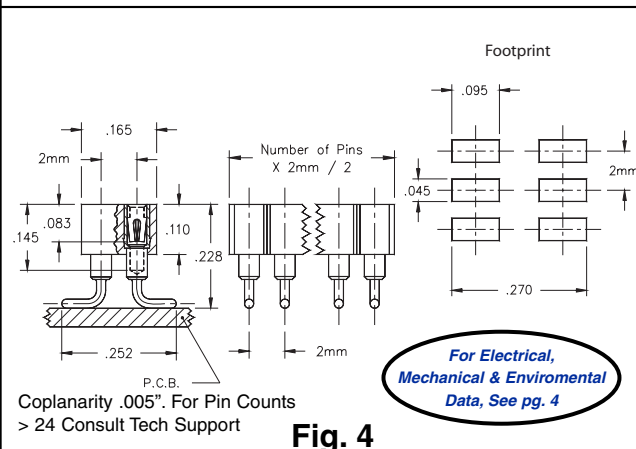
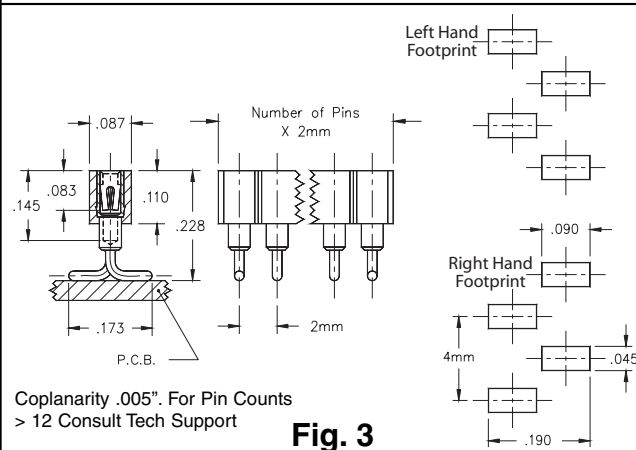
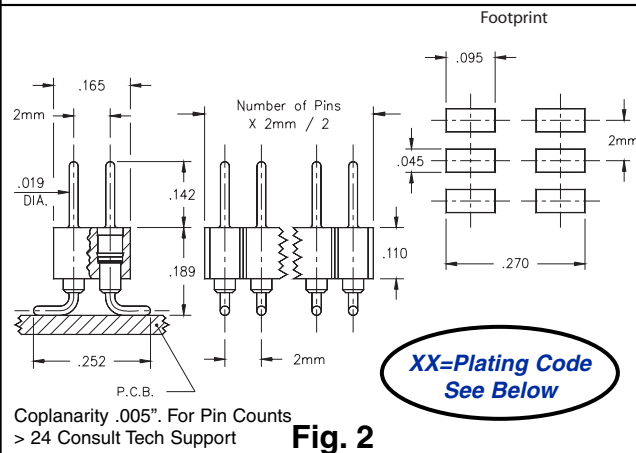
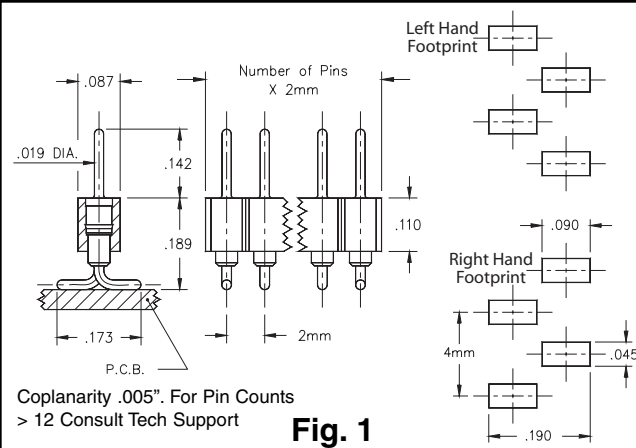
Specify # of pins → 002-100

For Electrical,
Mechanical & Environmental
Data, See pg. 4

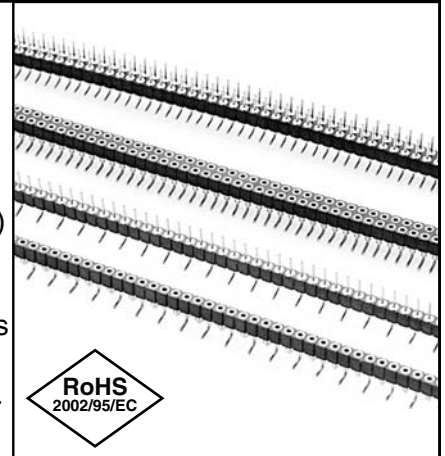
XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=		93		43◇	
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au		30μ" Au	



- Headers (830 & 832) use MM# 6218 pins. See page 175 for details.
- Sockets (831 & 833) use MM# 1802 receptacles and accept pin diameters from .015-.025. See page 140 for details.
- Coplanarity .005" (Single Row max 12 pins; Double Row max 24 pins) for higher pin counts contact technical support.
- Insulators are high temp. thermoplastic.



For RoHS compliance
select plating code.

Ordering Information

Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins		
	830-XX-0-30-001000 Specify # of pins → 01-50		
Fig. 1R	Single Row Header, Right Hand Footprint Even # of pins		
	830-XX-0-30-002000 Specify even # of pins → 02-50		
Fig. 2	Double Row Header, Even # of pins		
	832-XX-30-001000 Specify even # of pins → 004-100		
SPECIFY PLATING CODE XX=		10	90 40
Pin Plating		10μ" Au	200μ" Sn/Pb 200μ" Sn
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins		
	831-XX-0-30-001000 Specify # of pins → 01-50		
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins		
	831-XX-0-30-002000 Specify even # of pins → 02-50		
Fig. 4	Double Row Socket, Even # of pins		
	833-XX-30-001000 Specify even # of pins → 004-100		
SPECIFY PLATING CODE XX=		93	43
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn
Contact (Clip)		30μ" Au	30μ" Au

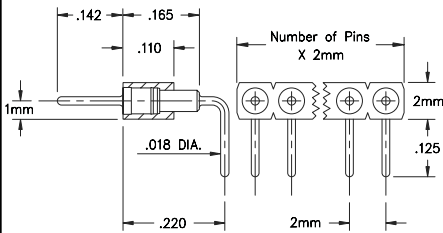


Fig. 1

- Series 830 & 832 use MM #3790 & MM #3796 pins. See page 176 for details.
- Series 831 & 833 use MM #1805 and MM #3805 receptacles and accept pin diameters from .015"-.025". See page 140 for details.
- Receptacles use Hi-Rel, 6 finger BeCu #43 contact rated at 3 amps. See page 220 for details.
- Insulators are high temp. thermoplastic.

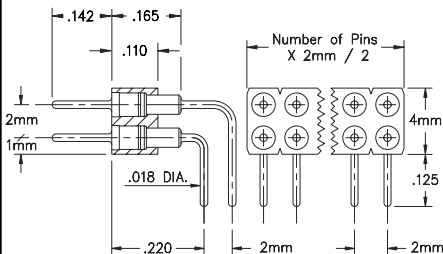
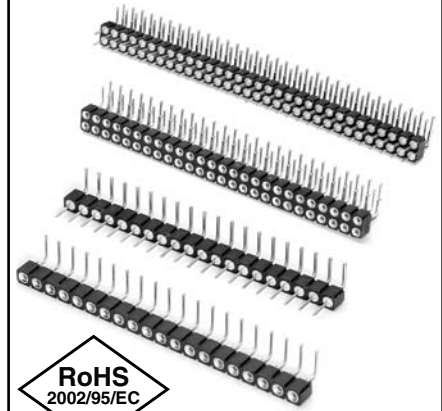


Fig. 2

Ordering Information

Fig. 1

830...001 Single Row Right Angle Header

830-10-0__-20-001000

Specify # of pins → 01-50

Fig. 2

832...001 Double Row Right Angle Header

832-10-__-20-001000

Specify # of pins → 002-100

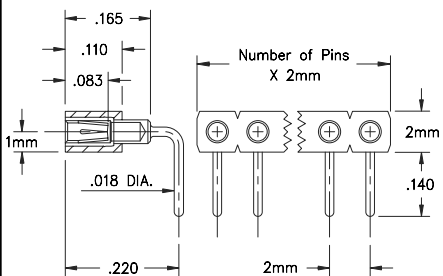


Fig. 3

Fig. 3

831...001 Single Row Right Angle Socket

831-43-0__-20-001000

Specify # of pins → 01-50

Fig. 4

833...001 Double Row Right Angle Socket

833-43-__-20-001000

Specify # of pins → 002-100

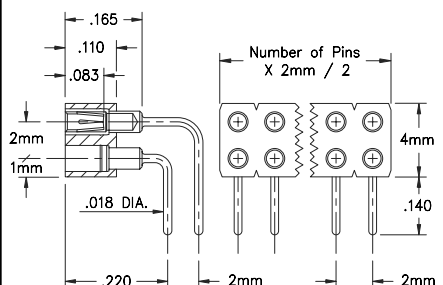


Fig. 4

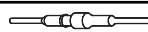
For Electrical,
Mechanical & Environmental
Data, See pg. 4

For RoHS compliance
select ◇ plating code.

PLATING CODE =

10 ◇

Pin Plating



10μ" Au

PLATING CODE =

43 ◇

Sleeve (Pin)



200μ" Sn

Contact (Clip)



30μ" Au

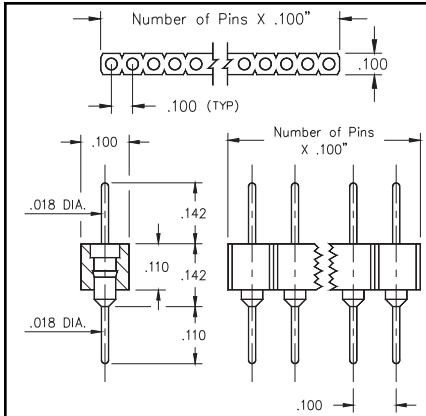


Fig. 1

- Series 3XX are available with straight and right angle solder tails.
- Series 350 & 399...009 use MM #3404 and #5011 pins. See pages 179 & 181 for details.
- Series 301, 310 & 399...003 use MM #0156, #1001 & #1103 receptacles. See pages 136 & 137 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.

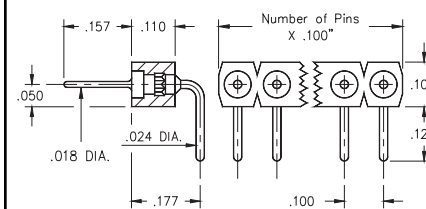
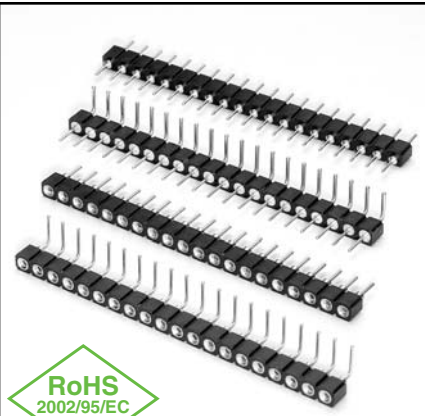


Fig. 2

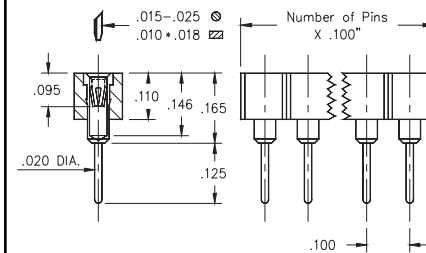


Fig. 3

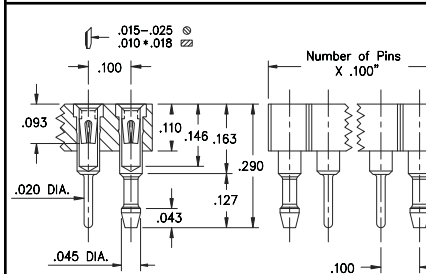


Fig. 4

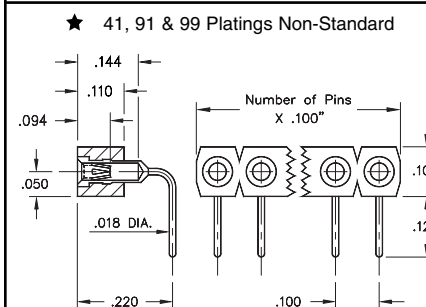


Fig. 5

Ordering Information

Fig. 1	Series 350...006	Straight Pin Header
	350-XX-1__-00-006000	Specify # of pins → 01-64
Fig. 2	Series 399...009	Right Angle Pin Header
	399-XX-1__-10-009000	Specify # of pins → 02-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3	Series 310...001	Straight Socket
	310-XX-1__-41-001000	Specify # of pins → 01-64
Fig. 4	Series 301...056	Socket w/ Retention Pegs
	301-XX-1__-41-560000	Specify # of pins → 01-64
Fig. 5	Series 399...003	Right Angle Socket
	399-XX-1__-10-003000	Specify # of pins → 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	91	93	99	41◇	43◇	44◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn	200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au	10μ" Au	30μ" Au	200μ" Sn/Pb	10μ" Au	30μ" Au	200μ" Sn

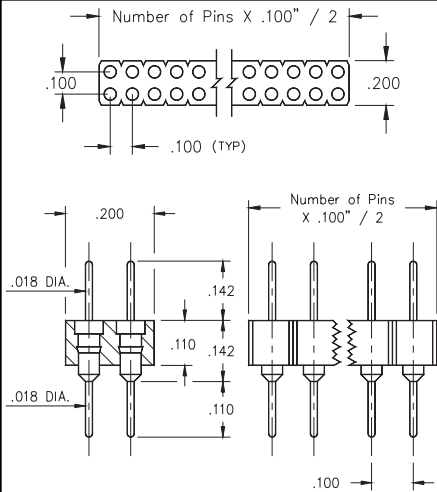


Fig. 1

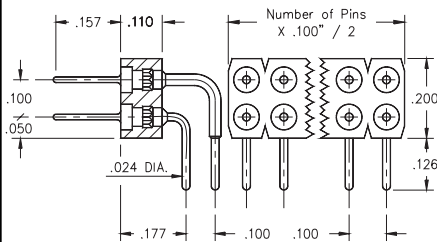


Fig. 2

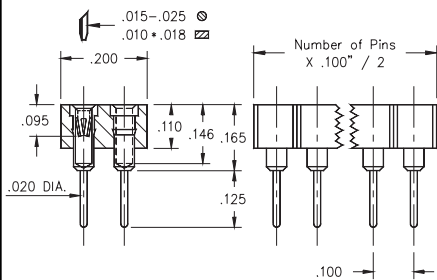


Fig. 3

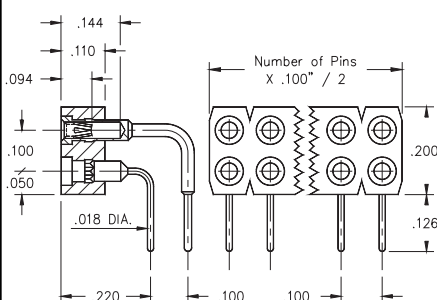
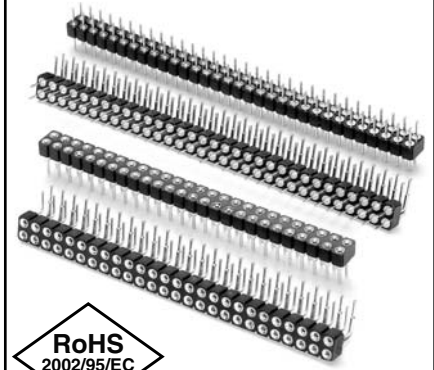


Fig. 4

- Series 4XX are available with straight and right angle solder tails.
- Series 450 & 499...009 use MM #3404 and #5011/5113 pins. See pages 179 & 181 for details.
- Series 410 & 499...003 use MM #1001 and #1103/1602 receptacles. See pages 136, 137 & 138 for details.
- Receptacles use Hi-Rel, 4 finger #30 BeCu contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 450...006 Straight Pin Header	
	450-XX-2 _ _ -00-006000	
Specify # of pins	02-64	
Fig. 2	Series 499...009 Right Angle Pin Header	
	499-10-2 _ _ -10-009000	
Specify # of pins	02-64	
For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below For RoHS compliance select ◇ plating code.		
SPECIFY PLATING CODE XX=		10 ◇ 90 40 ◇
Pin Plating	10μ" Au 200μ" Sn/Pb 200μ" Sn	
Fig. 3	Series 410...001 Straight Socket	
	410-XX-2 _ _ -41-001000	
Specify # of pins	02-64	
Fig. 4	Series 499...003 Right Angle Socket	
	499-XX-2 _ _ -10-003000	
Specify # of pins	02-64	
For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below For RoHS compliance select ◇ plating code.		
SPECIFY PLATING CODE XX=		13 ◇ 43 ◇
Sleeve (Pin)	10μ" Au 200μ" Sn	
Contact (Clip)	30μ" Au 30μ" Au	

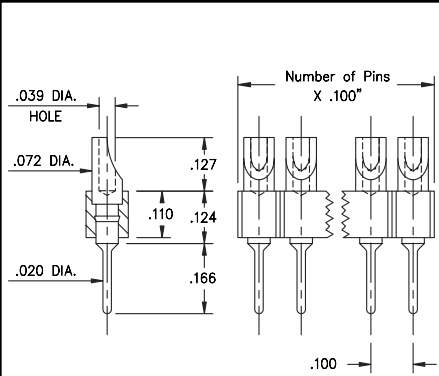


Fig. 1

- Series 380 & 480 use MM #8000 pins. See page 183 for details.
- Series 329 & 429 use MM #2954 pin receptacles and accept pin diameters from .015\"-.025\". See page 142 for details.
- Series 329 & 429 receptacles use Hi-Rel, 4 finger BeCu #30 contacts rated at 3 amps. See page 218 for details.
- Solder cups are pre-aligned.
- Insulators are high temp. thermoplastic.

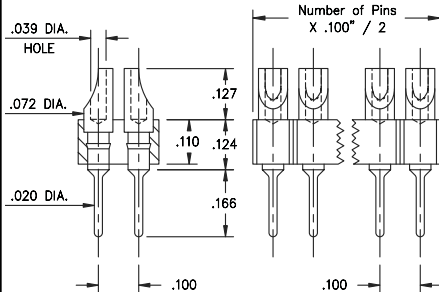
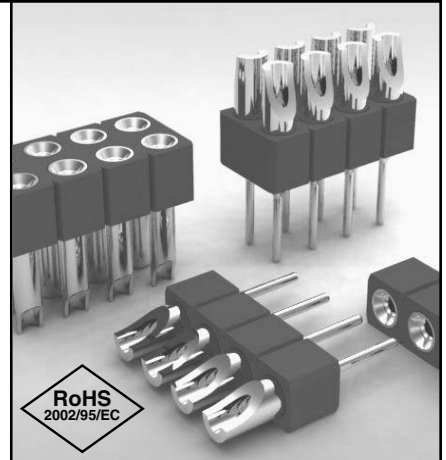


Fig. 2

Ordering Information

Fig. 1

Series 380...001 Solder Cup / Solder Tail

380-XX-1 _ _ -00-001000

Specify # of pins → 01-64

Fig. 2

Series 480...001 Solder Cup / Solder Tail

480-10-2 _ _ -00-001000

Specify # of pins → 02-64

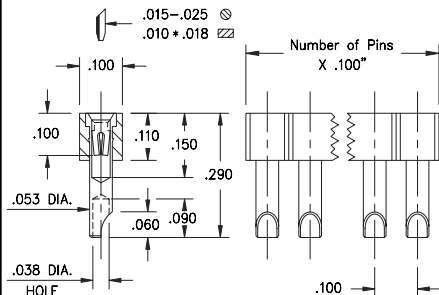


Fig. 3

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10 ◇	90 ◇	40 ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3

Series 329...540 Solder Cup Sockets

329-43-1 _ _ -41-540000

Specify # of pins → 01-64

Fig. 4

Series 429...540 Solder Cup Sockets

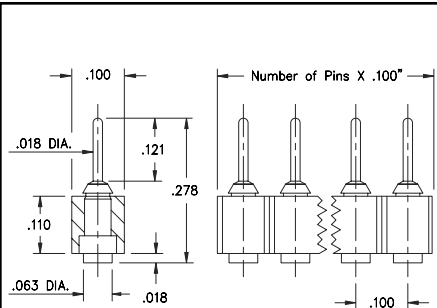
429-43-2 _ _ -41-540000

Specify # of pins → 02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

For RoHS compliance
select ◇ plating code.

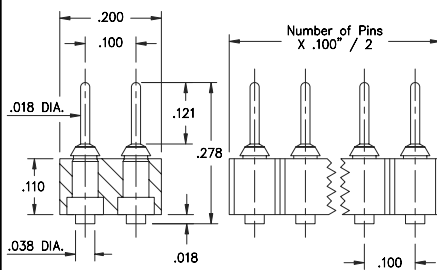
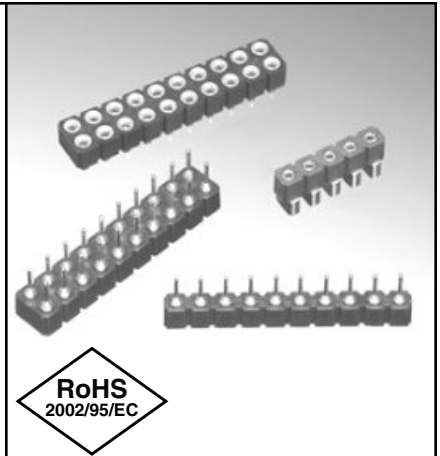
PLATING CODE =					43 ◇		
Sleeve (Pin)					200μ" Sn		
Contact (Clip)					30μ" Au		



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Fig. 1

- Series 329 and 429 pin interconnects offer vertical Surface Mount MM #2956-X solder tails. See page 185 for details.
- Series 340 Surface mount sockets use MM #4078 pins. Series 414 sockets use MM #1434 pins. See pages 133 and 138 for details.
- Series 340 and 414 receptacles use Hi-Rel, 4-finger BeCu #30 contacts rated at 3 amps. Receptacles accept .015"-.025" diameter pins. See page 218 for details.
- Insulators are high temp. thermoplastic.



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Fig. 2

Ordering Information

Fig. 1

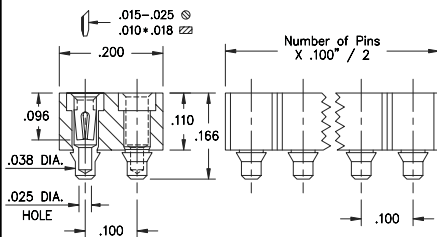
Series 329...560 Surface Mount Pin Header

329-10-1 _ _ -00-560000
Specify # of pins → 02-64

Fig. 2

Series 429...560 Surface Mount Pin Header

429-10-2 _ _ -00-560000
Specify # of pins → 04-72



Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Fig. 3

*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

*For RoHS compliance
select ◇ plating code.*

PLATING CODE =	10 ◇			
Pin Plating	10 μ" Au			

Fig. 3

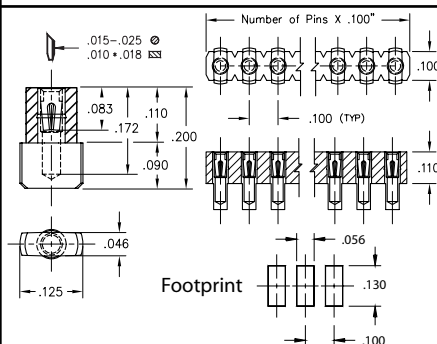
Series 414...117 Surface Mount Socket

414-43-2 _ _ -41-117000
Specify # of pins → 04-72

Fig. 4

Series 340...780 Surface Mount Socket

340-43-1 _ _ -30-780100
Specify # of pins → 02-64



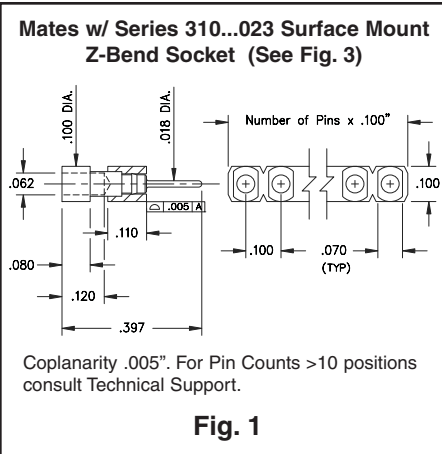
Coplanarity .005". For Pin Counts >10 positions consult Technical Support.

Fig. 4

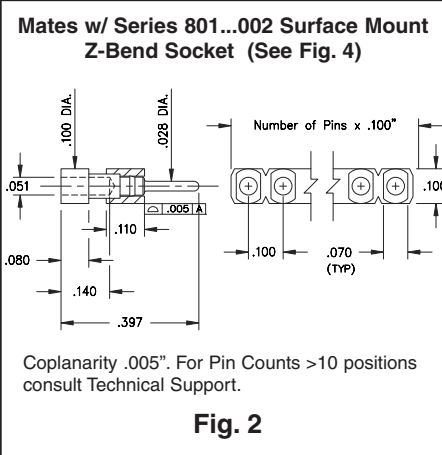
*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

*For RoHS compliance
select ◇ plating code.*

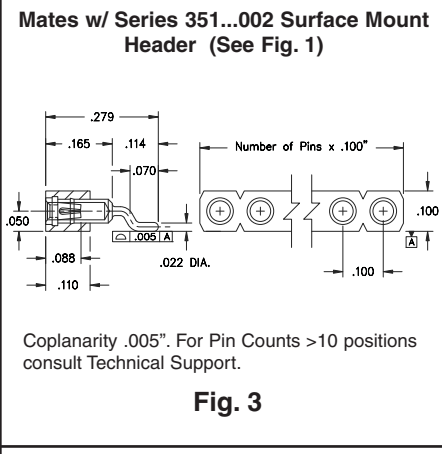
PLATING CODE =						43 ◇	
Sleeve (Pin)						200μ" Sn	
Contact (Clip)						30 μ" Au	



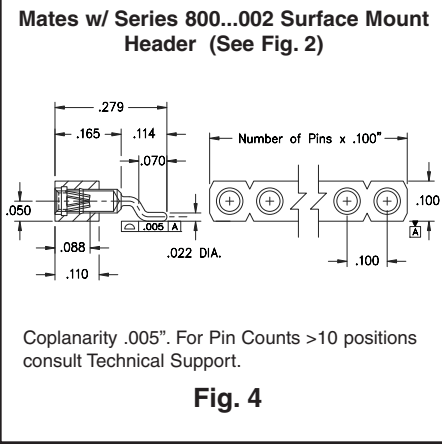
- Series 351 and 800 horizontal Surface Mount headers are available with .018" dia. pluggable pins (MM #5102) and .028" dia. pluggable pins (MM #1502). See page 185 for details.
- Series 310 horizontal Surface Mount Z-Bend sockets use MM #1023 receptacles that accept pin diameters from .015"-.025". Series 801 use MM #1303 receptacles that accept pin diameters from .025"-.037" and .025" square leads. See pages 142 and 150 for details.
- Insulators are high temp. thermoplastic.

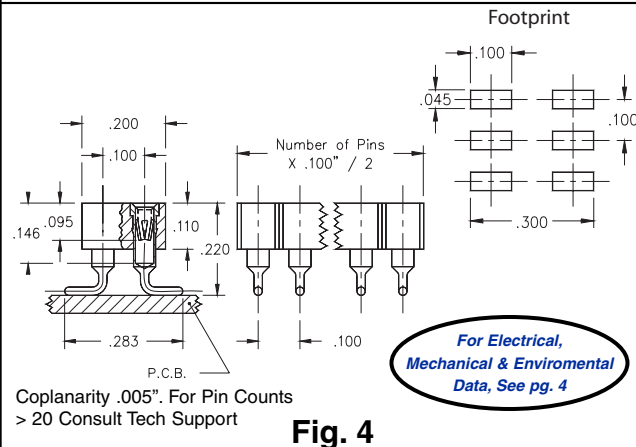
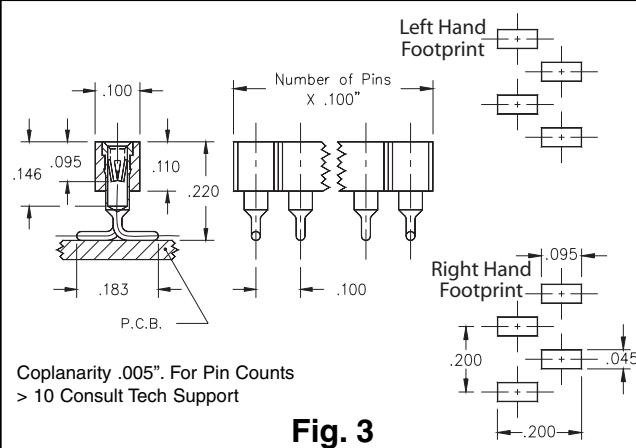
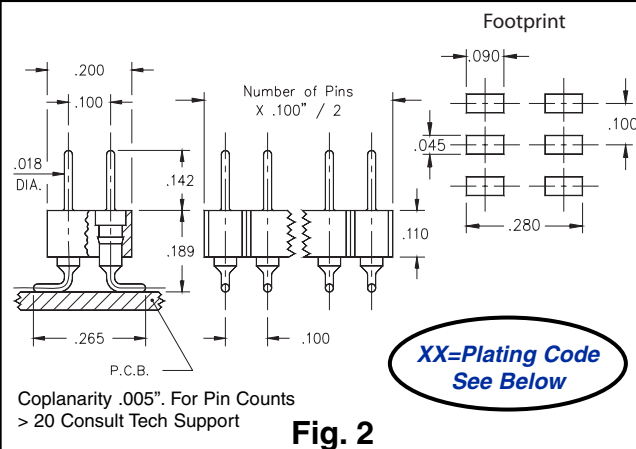
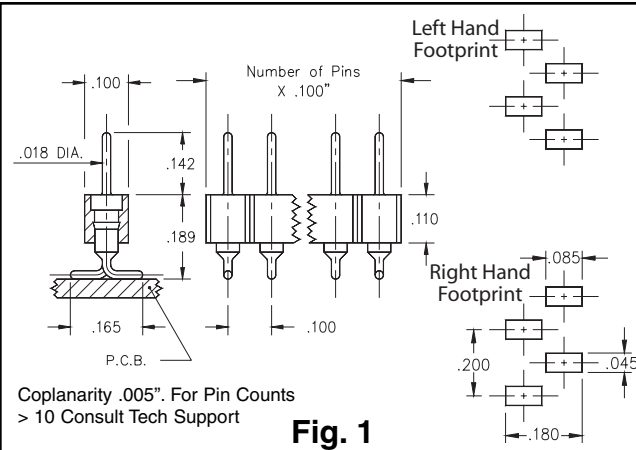


Ordering Information	
Fig. 1	Series 351...002 .018 Dia. Surface Mount Header
	351-10-1 _ _ -40-002000 Specify # of pins → 02-10
Fig. 2	Series 800...002 .028 Dia. Surface Mount Header
	800-10-0 _ _ -40-002000 Specify # of pins → 02-10

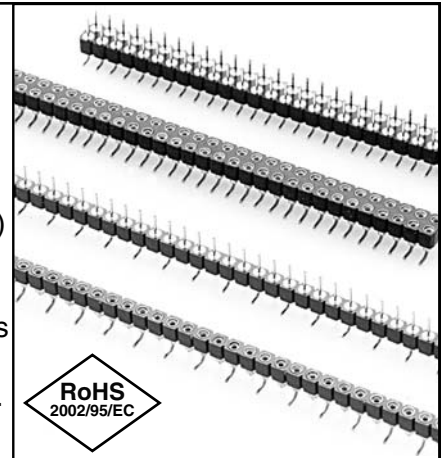


<i>For Electrical, Mechanical & Environmental Data, See pg. 4</i> <i>For RoHS compliance select ◇ plating code.</i>	
PLATING CODE =	10 ◇
Pin Plating	10 μ" Au
Fig. 3	Series 310...023 .018 Dia. SMT Z-Bend Socket
	310-43-1 _ _ -40-023000 Specify # of pins → 02-10
Fig. 4	Series 801...002 .028 Dia. SMT Z-Bend Socket
	801-XX-0 _ _ -40-002000 Specify # of pins → 02-10
<i>For Electrical, Mechanical & Environmental Data, See pg. 4</i> <i>XX=Plating Code See Below</i> <i>For RoHS compliance select ◇ plating code.</i>	
SPECIFY PLATING CODE XX=	93 99 43 ◇ 44 ◇
Sleeve (Pin)	200μ" Sn/Pb 200μ" Sn/Pb 200μ" Sn 200μ" Sn
Contact (Clip)	30μ" Au 200μ" Sn/Pb 30μ" Au 200μ" Sn





- Headers (350 & 450) use MM# 3404 pins. See page 179 for details.
- Sockets (310 & 410) use MM# 1005 receptacles and accept pin diameters from .015-.025. See page 137 for details.
- Coplanarity .005" (Single Row max 10 pins; Double Row max 20 pins). For higher pin counts contact technical support.
- Insulators are high temp. thermoplastic.



For RoHS compliance
 select plating code.

Ordering Information

Fig. 1L	Single Row Header, Left Hand Footprint Odd or Even # of pins		
	350-XX-1	-00-106000	
	Specify # of pins		02-64
Fig. 1R	Single Row Header, Right Hand Footprint Even # of pins		
	350-XX-1	-00-107000	
	Specify even # of pins		02-64
Fig. 2	Double Row Header, Even # of pins		
	450-XX-2	-00-106000	
	Specify even # of pins		04-72
SPECIFY PLATING CODE XX=			
Pin Plating			
	10μ" Au	200μ" Sn/Pb	200μ" Sn
Fig. 3L	Single Row Socket, Left Hand Footprint Odd or Even # of pins		
	310-43-1	-41-105000	
	Specify # of pins		02-64
Fig. 3R	Single Row Socket, Right Hand Footprint Even # of pins		
	310-43-1	-41-107000	
	Specify even # of pins		02-64
Fig. 4	Double Row Socket, Even # of pins		
	410-43-2	-41-105000	
	Specify even # of pins		04-72
PLATING CODE =			
Sleeve (Pin)			
			200μ" Sn
Contact (Clip)			
			30μ" Au

For Electrical,
 Mechanical & Environmental
 Data, See pg. 4

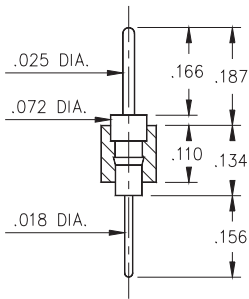


Fig. 1

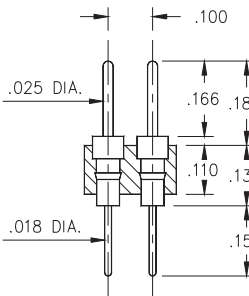


Fig. 2

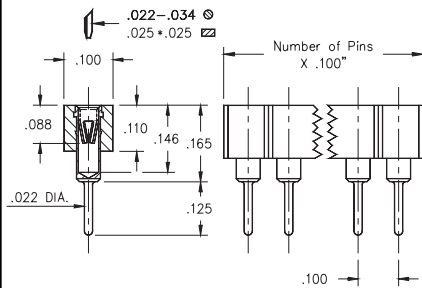


Fig. 3

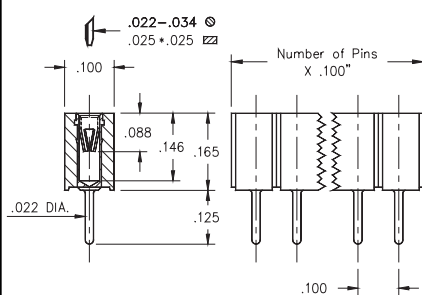


Fig. 4

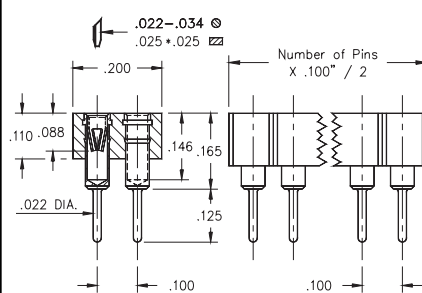
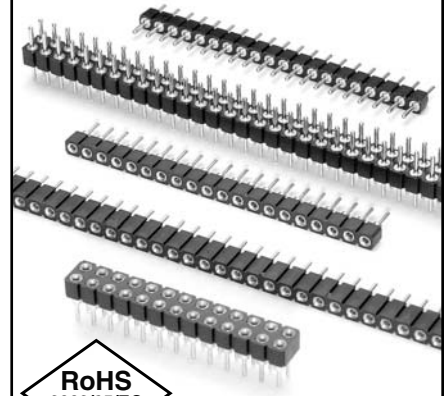


Fig. 5

- Series 350 & 450 single and double row headers use MM #0290 pins. See page 182 for details.
- Series 801 & 803 single and double row low profile sockets use MM #1303 pins. See page 150 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #16 contacts rated at 4.5 amps. Receptacles accept .025" diameter and .025" square pins. See page 221 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Single Row	.025 Pin / .018 Solder Tail			
	350-XX-1 _ _ -00-001000	Specify # of pins	→	01-64	
Fig. 2	Double Row	.025 Pin / .018 Solder Tail			
	450-XX-2 _ _ -00-001000	Specify # of pins	→	02-64	
For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below For RoHS compliance select ◇ plating code.					
SPECIFY PLATING CODE XX=		10◇	90	40◇	
Pin Plating		10μ" Au	200μ" Sn/Pb	200μ" Sn	
Fig. 3	Single Row	Low Profile Socket (short insulator)			
	801-43-0 _ _ -10-003000	Specify # of pins	→	01-64	
Fig. 4	Single Row	Low Profile Socket (long insulator)			
	801-43-0 _ _ -10-013000	Specify # of pins	→	01-36	
Fig. 5	Double Row	Low Profile Socket			
	803-43-0 _ _ -10-003000	Specify # of pins	→	02-72	
For Electrical, Mechanical & Environmental Data, See pg. 4 For RoHS compliance select ◇ plating code.					
PLATING CODE =					43◇
Sleeve (Pin)					200μ" Sn
Contact (Clip)					30μ" Au

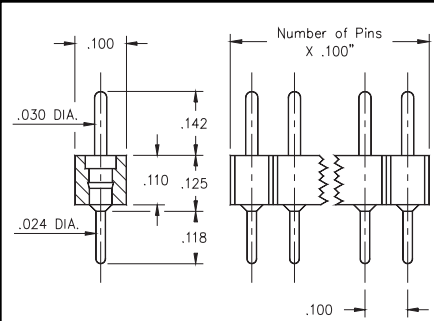


Fig. 1

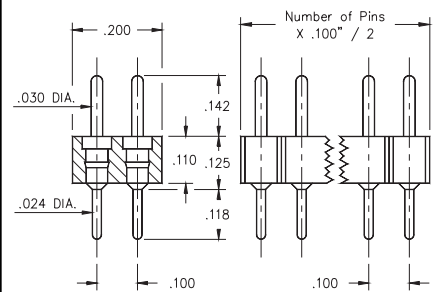


Fig. 2

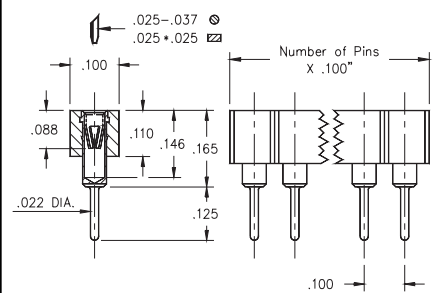


Fig. 3

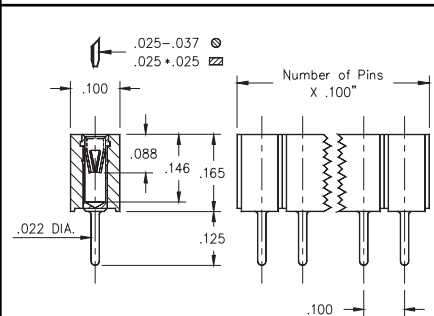


Fig. 4

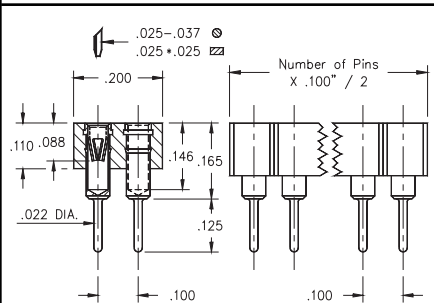
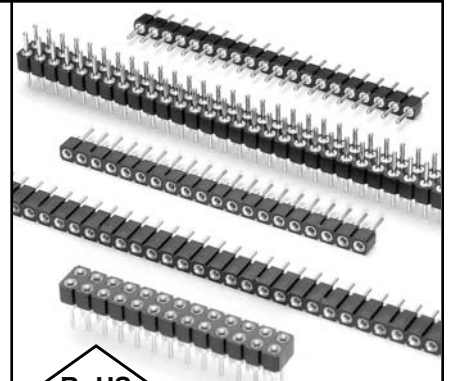


Fig. 5

- Series 800 and 802 single and double row pin headers use MM #5016 pins. See page 182 for details.
- Series 801 and 803 single and double row sockets use MM #1303 pins. See page 150 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .025" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Single Row	Low Profile Pin Header			
	800-XX-0 _ _ -10-002000				
	Specify # of pins	└───▶ 01-64			
Fig. 2	Double Row	Low Profile Pin Header			
	802-XX-0 _ _ -10-002000				
	Specify # of pins	└───▶ 02-64			
For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below For RoHS compliance select ◇ plating code.					
SPECIFY PLATING CODE XX=		10◇	90	40◇	
Pin Plating 		10μ" Au	200μ" Sn/Pb	200μ" Sn	
Fig. 3	Single Row	Low Profile Socket (short insulator)			
	801-XX-0 _ _ -10-002000				
	Specify # of pins	└───▶ 01-64			
Fig. 4	Single Row	Low Profile Socket (long insulator)			
	801-XX-0 _ _ -10-012000				
	Specify # of pins	└───▶ 01-36			
Fig. 5	Double Row	Low Profile Socket			
	803-XX-0 _ _ -10-002000				
	Specify # of pins	└───▶ 02-72			
For Electrical, Mechanical & Environmental Data, See pg. 4 XX=Plating Code See Below For RoHS compliance select ◇ plating code.					
SPECIFY PLATING CODE XX=			93	99	43◇
Sleeve (Pin) 			200μ" Sn/Pb	200μ" Sn/Pb	200μ" Sn
Contact (Clip) 			30μ" Au	200μ" Sn/Pb	30μ" Au

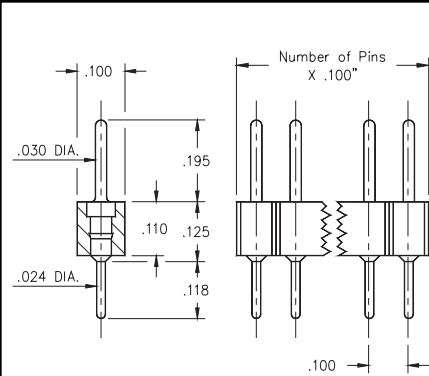


Fig. 1

- Pin interconnects available with straight MM #7007 or right angle MM #5005 solder tails. See page 182 for details.
- Sockets are available with straight MM #1304 or right angle MM #1305 solder tails. See pages 148 & 149 for details.
- MM #1304 and MM #1305 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.

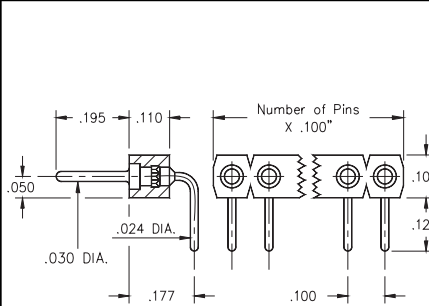
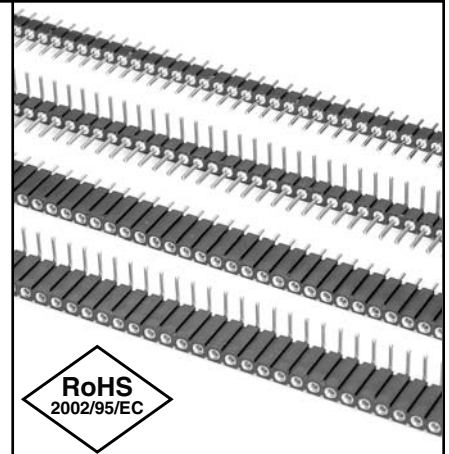


Fig. 2

Fig. 1

Series 800...10-001

Straight Pin Header

800-XX-0 _ -10-001000

Specify # of pins

01-64

Fig. 2

Series 800...20-001

Right Angle Pin Header

800-XX-0 _ -20-001000

Specify # of pins

02-64

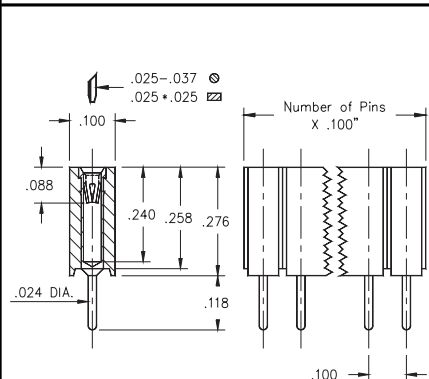


Fig. 3

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

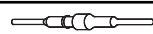
SPECIFY PLATING CODE XX=

10◇

90

40◇

Pin Plating



10μ" Au

200μ" Sn/Pb

200μ" Sn

Fig. 3

Series 801...10-001

Straight Socket

★ 44 Plating Non-Standard

801-XX-0 _ -10-001000

Specify # of pins

01-50

Fig. 4

Series 801...20-001

Right Angle Socket

★ 44 Plating Non-Standard

801-XX-0 _ -20-001000

Specify # of pins

01-50

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=

93

99

43◇

44◇

Sleeve (Pin)



200μ" Sn/Pb

200μ" Sn/Pb

200μ" Sn

200μ" Sn

Contact (Clip)



30μ" Au

200μ" Sn/Pb

30μ" Au

200μ" Sn

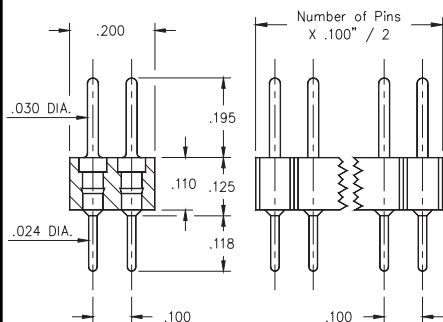


Fig. 1

- Pin interconnects available with straight MM #7007 or right angle MM #5005/5107 solder tails. See page 182 for details.
- Sockets are available with straight MM #1304 or right angle MM #1305/1306 solder tails. See pages 148 & 149 for details.
- MM #1304, #1305 & #1306 receptacles use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter and .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.

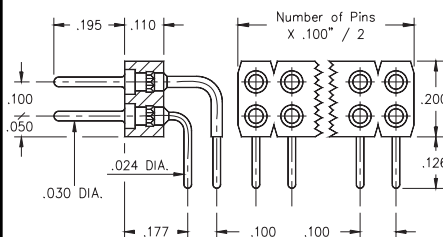
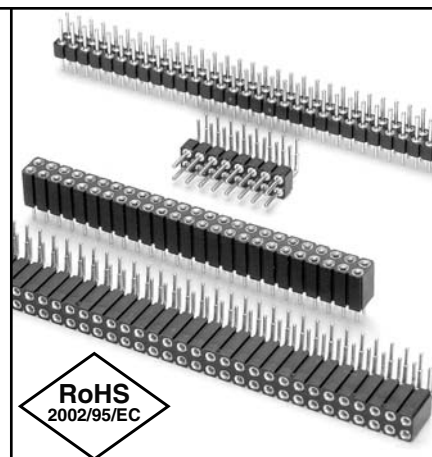


Fig. 2

Fig. 1

Ordering Information

Fig. 1	Series 802...10-001	Straight Pin Header
	802-XX-0 _ _ -10-001000 Specify # of pins  02-64	
Fig. 2	Series 802...20-001	Right Angle Pin Header
	802-XX-0 _ _ -20-001000 Specify # of pins  02-64	

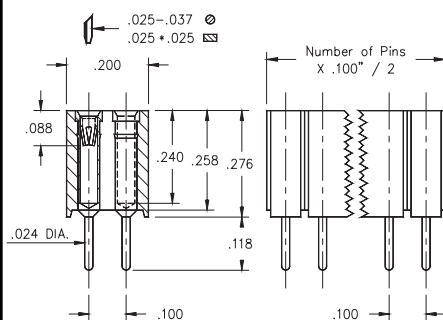


Fig. 3

*For Electrical,
Mechanical & Enviromental
Data, See pg. 4*

XX=Plating Code
See Below

For RoHS compliance
select plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating 	10μ Au	200μ Sn/Pb	200μ Sn	

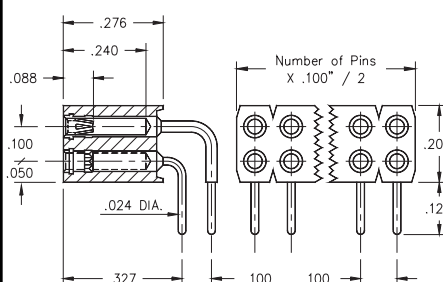


Fig. 4

Fig. 4

Fig. 3	Series 803...10-001	Straight Socket
	803-XX-__-__-10-001000 Specify # of pins  002-100	
Fig. 4	Series 803...20-001	Right Angle Socket
	803-XX-__-__-20-001000 Specify # of pins  002-100	

*For Electrical,
Mechanical & Enviromental
Data, See pg. 4*

XX=Plating Code
See Below

For RoHS compliance
select  plating code.

SPECIFY PLATING CODE XX=			93	99		43◇	
Sleeve (Pin) 			200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	
Contact (Clip) 			30μ" Au	200μ" Sn/Pb		30μ" Au	

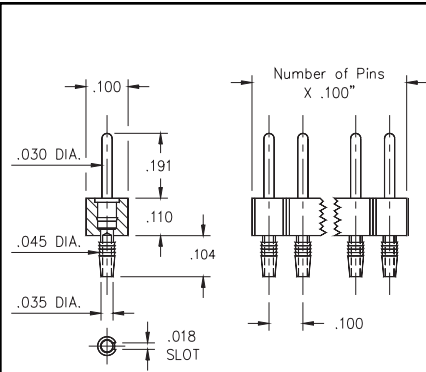


Fig. 1

- The unique compliant tail pins conform to .040"±.003" finished hole without stressing inner layers. Patent No. 4,799,904
- Series 800 pin headers are offered in two tail lengths for .060"-.100" (MM #5601) and .090"-.130" (MM #5602) thick panels. See page 187 for details.
- Series 801 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter pins & .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.

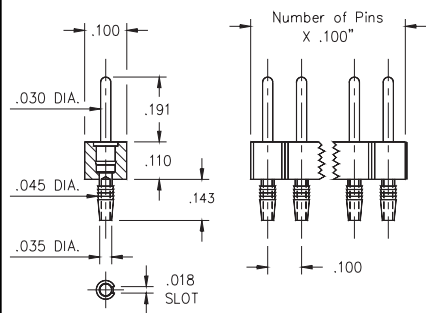
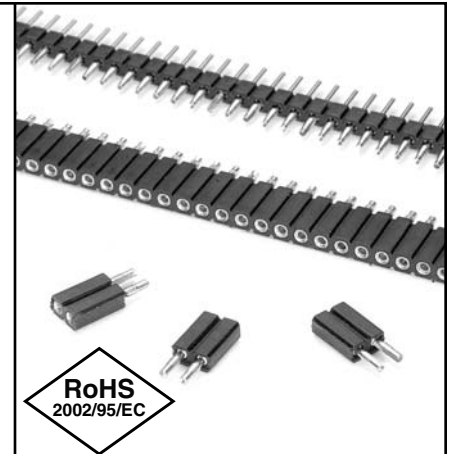


Fig. 2

Fig. 1

Ordering Information

Compliant Tail Pin Header for .060 - .100" thick boards

800-XX-0 _ -61-001000

Specify # of pins → 01-64

Fig. 2

Compliant Tail Pin Header for .090 - .130" thick boards

800-XX-0 _ -62-001000

Specify # of pins → 01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

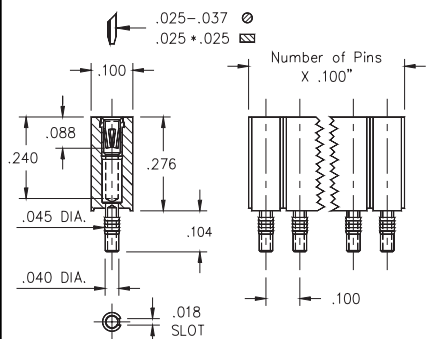


Fig. 3

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3

Compliant Tail Socket for .060 - .100" thick boards

801-XX-0 _ -61-001000

Specify # of pins → 01-50

Fig. 4

Compliant Tail Socket for .090 - .130" thick boards

801-XX-0 _ -62-001000

Specify # of pins → 01-50

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

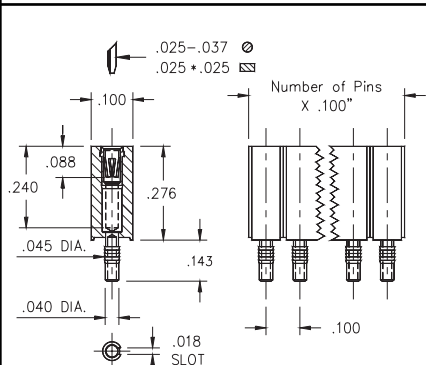


Fig. 4

SPECIFY PLATING CODE XX=		93	99		43◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb		30μ" Au	

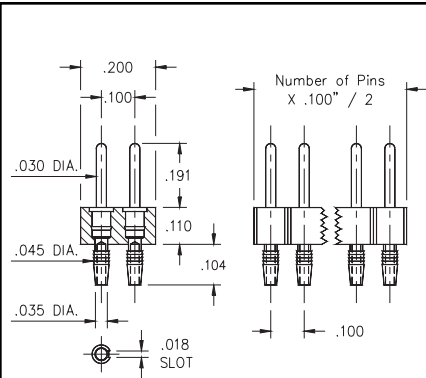


Fig. 1

- The unique compliant tail pins conform to .040"±.003" finished hole without stressing inner layers. Patent No. 4,799,904
- Series 802 pin headers are offered in two tail lengths for .060"-.100" (MM #5601) and .090"-.130" (MM #5602) thick panels. See page 187 for details.
- Series 803 sockets MM #4614 or #4615 use Hi-Rel, 6-finger BeCu #47 contacts rated at 4.5 amps. Receptacles accept .030" diameter pins & .025" square pins. See page 221 for details.
- Insulators are high temp. thermoplastic.

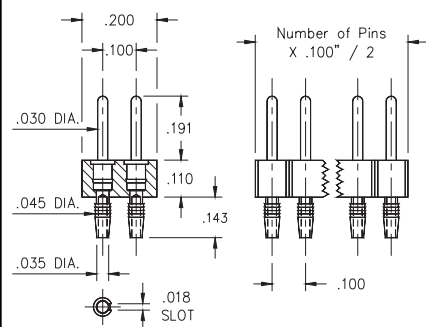
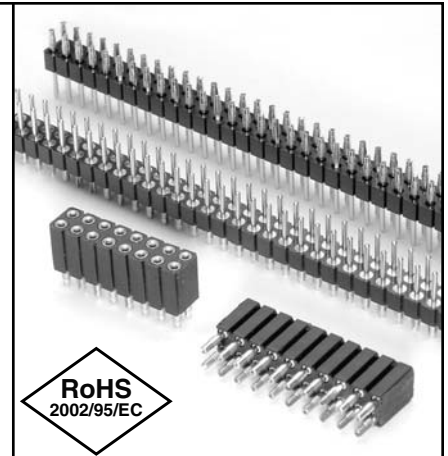


Fig. 2

Ordering Information

Fig. 1

**Compliant Tail Pin Header
for .060 - .100" thick boards**

802-XX-0 _ -61-001000

Specify # of pins → 02-64

Fig. 2

**Compliant Tail Pin Header
for .090 - .130" thick boards**

802-XX-0 _ -62-001000

Specify # of pins → 02-64

*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

**XX=Plating Code
See Below**

*For RoHS compliance
select ◇ plating code.*

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

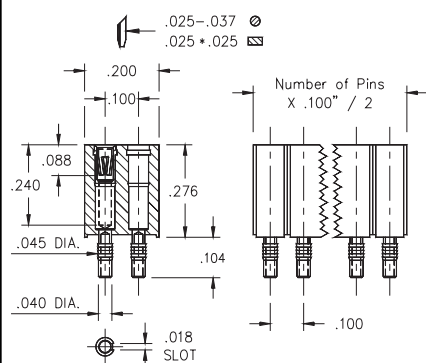


Fig. 3

Fig. 3

**Compliant Tail Socket
for .060 - .100" thick boards**

803-XX- _ -61-001000

Specify # of pins → 002-100

Fig. 4

**Compliant Tail Socket
for .090 - .130" thick boards**

803-XX- _ -62-001000

Specify # of pins → 002-100

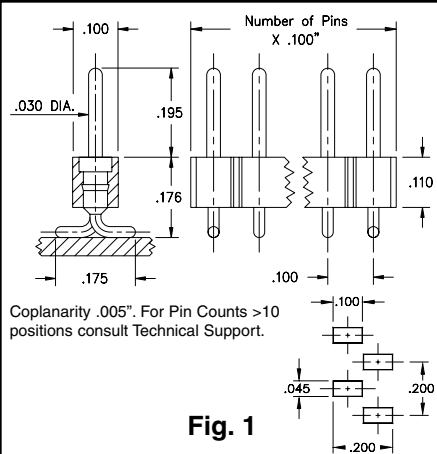
*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

**XX=Plating Code
See Below**

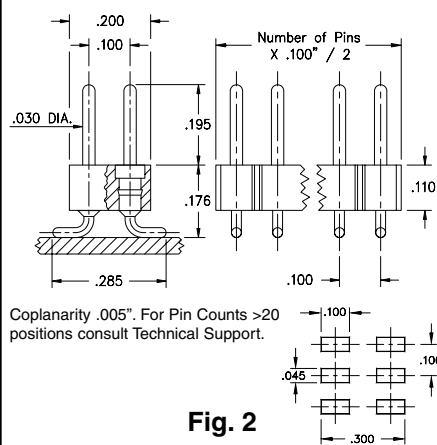
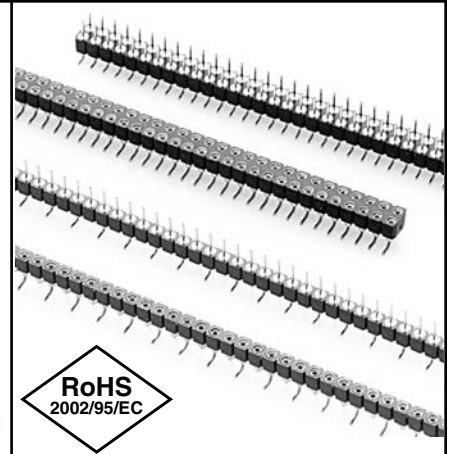
*For RoHS compliance
select ◇ plating code.*

SPECIFY PLATING CODE XX=		93	99		43◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb		30μ" Au	

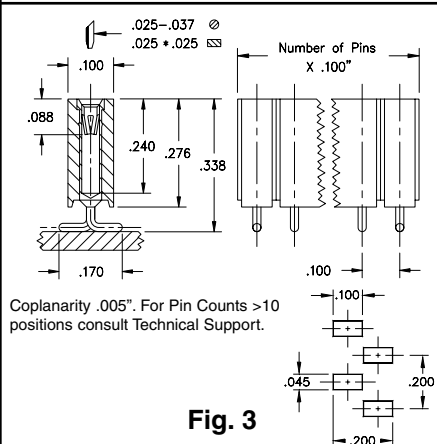
Fig. 4



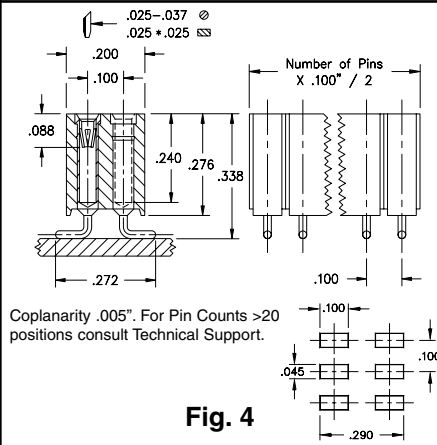
- Series 800 & 802 use MM #7007 pins. See page 182 for details.
- Series 801 & 803 use MM #1304 receptacles and accept pin diameters from .025"-.037" and .025" square pins. See page 148 for details.
- Receptacles use Hi-Rel, 6 finger BeCu #47 contact rated at 4.5 amps. See page 221 for details.
- Insulators are high temp. thermoplastic.



Ordering Information	
Fig. 1	800...001 Single Row Surface Mount Header
	800-10-0__-30-001000 Specify # of pins → 03-64
Fig. 2	802...001 Double Row Surface Mount Header
	802-10-0__-30-001000 Specify # of pins → 04-72



<i>For Electrical, Mechanical & Environmental Data, See pg. 4</i>		<i>For RoHS compliance select ◇ plating code.</i>	
PLATING CODE =	10 ◇		
Pin Plating	10μ" Au		
Fig. 3	801...001 Single Row Surface Mount Socket		
	801-43-0__-30-001000 Specify # of pins → 03-50		
Fig. 4	803...001 Double Row Surface Mount Socket		
	803-XX-__-30-001000 Specify # of pins → 004-100		



<i>For Electrical, Mechanical & Environmental Data, See pg. 4</i>		<i>XX=Plating Code See Below</i>		<i>For RoHS compliance select ◇ plating code.</i>	
SPECIFY PLATING CODE XX=		93		43 ◇	
Sleeve (Pin)		200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au		30μ" Au	

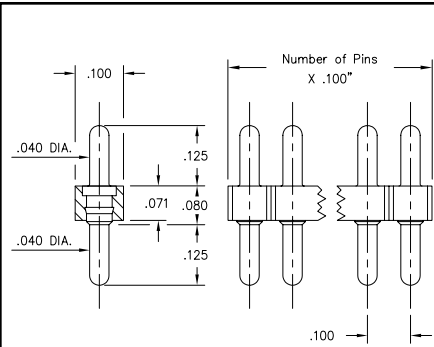


Fig. 1

- Series 800 and 802 single & double row interconnects feature sturdy .040" Dia. leads (MM #3077) and low profile (.071" thick) insulator. See page 182 for details.
- Series 801 and 803 single and double row sockets use MM #1313 receptacles. See page 151 for details.
- Series 801 and 803 receptacles use Hi-Rel, 6-finger BeCu #18 contacts rated at 8 amps. Receptacles accept .037"-.043" diameter pins. See page 222 for details.
- Insulators are high temp. thermoplastic.

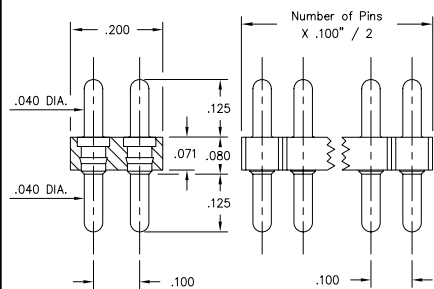
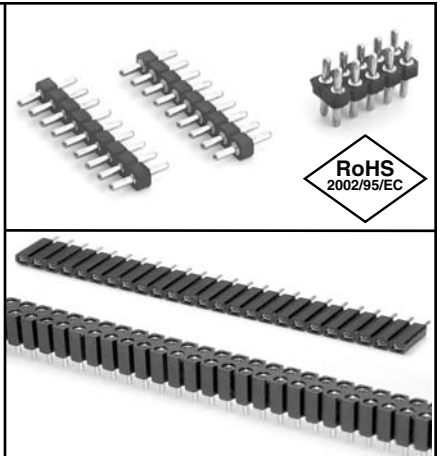


Fig. 2

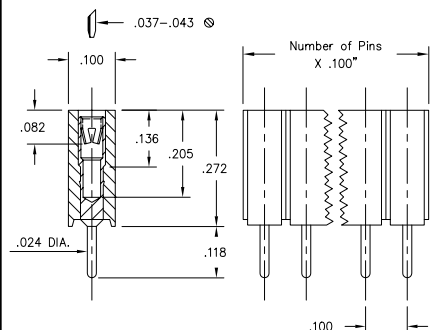


Fig. 3

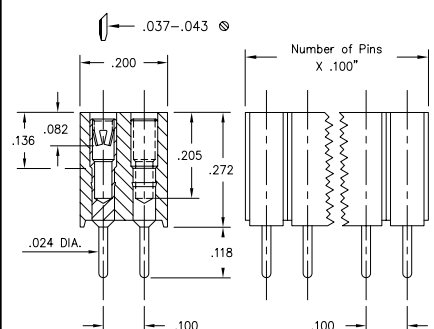


Fig. 4

Ordering Information

Fig. 1

Series 800...10-004 Single Row Pin Header

800-XX-0__-10-004000

Specify # of pins → 01-50

Fig. 2

Series 802...10-004 Double Row Pin Header

802-XX-__-10-004000

Specify # of pins → 04-100

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

Fig. 3

Series 801...10-004 Single Row Socket

801-XX-0__-10-004000

Specify # of pins → 01-50

Fig. 4

Series 803...10-004 Double Row Socket

803-XX-__-10-004000

Specify # of pins → 004-100

For Electrical, Mechanical & Environmental Data, See pg. 4

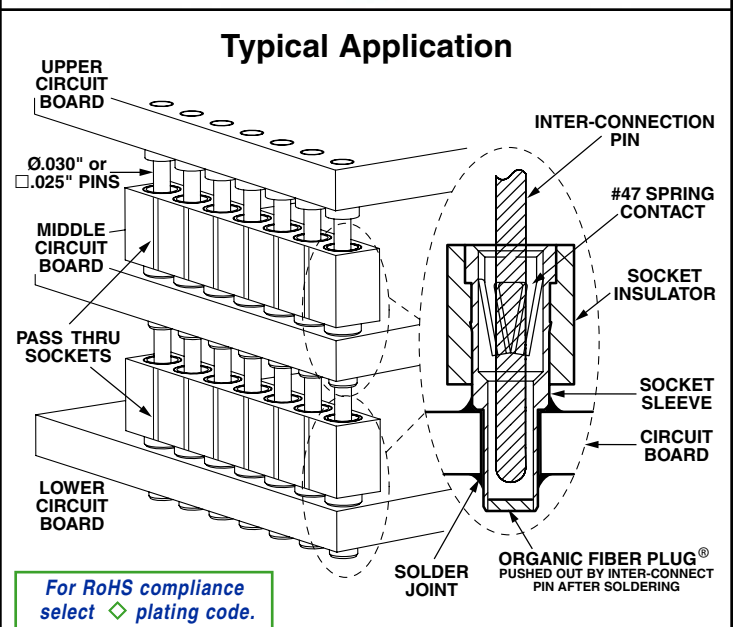
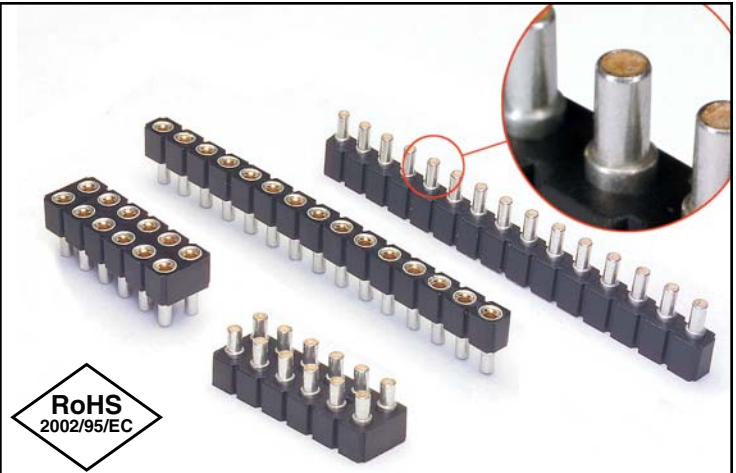
XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

SPECIFY PLATING CODE XX=		93	99		43◇	
Sleeve (Pin)		200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	
Contact (Clip)		30μ" Au	200μ" Sn/Pb		30μ" Au	

- 834/835 Series Pass Through Sockets have a low .130" profile and will accept Ø.030" round pin, as well as industry standard .025" square pin headers.
- They are typically used to interconnect two or more parallel circuit boards.
- Sockets are designed for hand, wave or reflow* soldering. The high temp. insulator is compatible with all solder processes.
- Unique **ORGANIC FIBRE PLUG®** barriers prevent solder, paste or flux from contaminating the internal spring contacts. After soldering, the **OFP®** barriers are pushed out of the socket when the mating header is inserted.
- Mill-Max sockets use a precision-machined brass sleeve with a press-fit beryllium copper "multi-finger" spring contact.
- Recommended mounting holes are Ø.046 ±.003" PTH (1,2 mm drilled prior to plating).

**Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The pass through socket is placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The OFP® barrier prevents solder paste from being picked-up inside the contact during assembly.*



US Patent #7,086,870

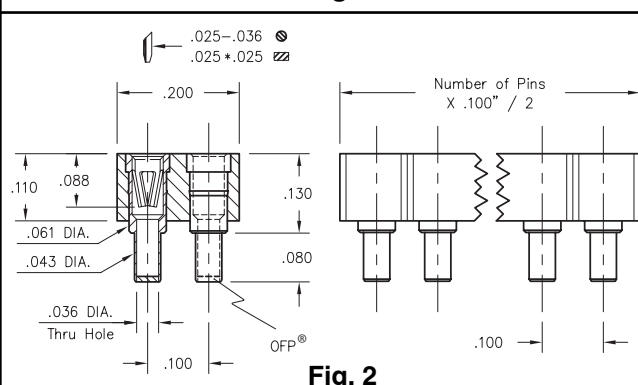
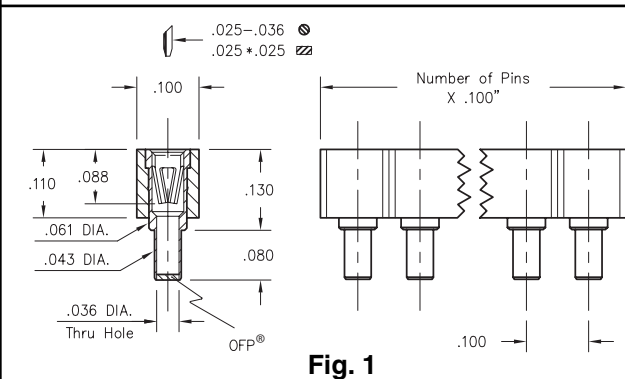
Ordering Information

Fig. 1	Single Row OFP® Pass Through Socket	
	834-XX-0	-10-001000
	Specify # of pins	→ 01-64
Fig. 2	Double Row OFP® Pass Through Socket	
	835-XX-0	-10-001000
	Specify # of pins	→ 02-72

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

SPECIFY PLATING CODE XX=	93	43 ◇
Sleeve (Pin)	200µ" Sn/Pb	200µ" Sn
Contact (Clip)	30µ" Au	30µ" Au



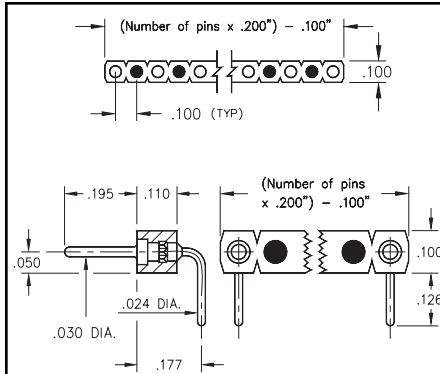


Fig. 1

- Series 800 selectively loaded headers use MM #5005 pins. See page 182 for details.
- Series 801 selectively loaded sockets use MM #1303, #1304 and #1305 pins. See pages 148, 149 & 150 for details.
- Series 801 selectively loaded sockets use Hi-Rel, 6-finger BeCu #47 contacts rated at 3 amps. See page 221 for details.
- Insulators are high temp. thermoplastic, suitable for all soldering operations.

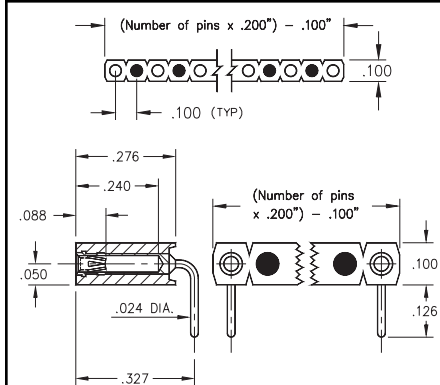
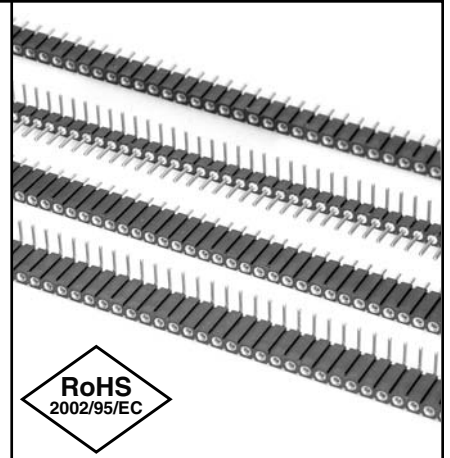


Fig. 2

Ordering Information

Fig. 1

Series 800...20-201

Right Angle Header

800-10-0_-20-201000

Specify # of pins

02-32

*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

*For RoHS compliance
select plating code.*

PLATING CODE =

10

Pin Plating



10μ" Au

Fig. 2

Series 801...20-201

Right Angle Socket

801-43-0_-20-201000

Specify # of pins

02-25

Fig. 3

Series 801...20-212

Straight Socket

801-43-0_-10-212000

Specify # of pins

02-18

Fig. 4

Series 801...10-201

Straight Socket

801-43-0_-10-201000

Specify # of pins

02-25

*For Electrical,
Mechanical & Environmental
Data, See pg. 4*

*For RoHS compliance
select plating code.*

PLATING CODE =

43

Sleeve (Pin)



200μ" Sn

Contact (Clip)



30μ" Au

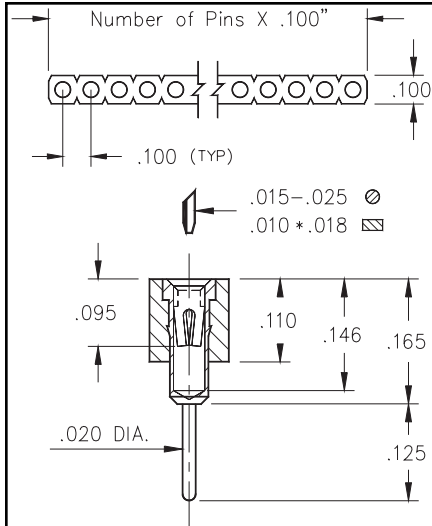
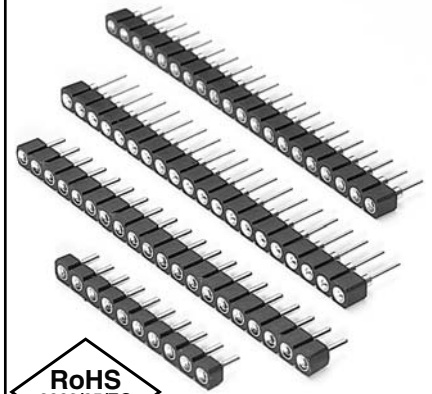


Fig. 1

- SIP sockets accept .015 - .025" diameter pins and standard IC leads.
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. See Mill-Max #1001, 0134, 0501 or 1534 pins (See pages 132, 133, 136) for details.
- Hi-Rel, 4-finger BeCu #12 & #30 contacts are rated at 3 amps. See pages 218 for details.
- Insulators are high temp. thermoplastic.



RoHS
2002/95/EC

Ordering Information

Fig. 1

Series 310...001

Standard Solder Tail

310-XX-1__-41-001000

Specify # of pins

01-64

Fig. 2

Series 311...001

Long Solder Tail

★ 41 & 91 Platings Non-Standard 311-XX-1__-41-001000

Specify # of pins

01-64

Fig. 3

Series 315...001

Very Low Profile

★ 41 & 91 Platings Non-Standard 315-XX-1__-41-001000

Specify # of pins

01-64

Fig. 4

Series 315...003

Ultra Low Profile

★ 41 & 91 Platings Non-Standard 315-XX-1__-41-003000

Specify # of pins

01-64

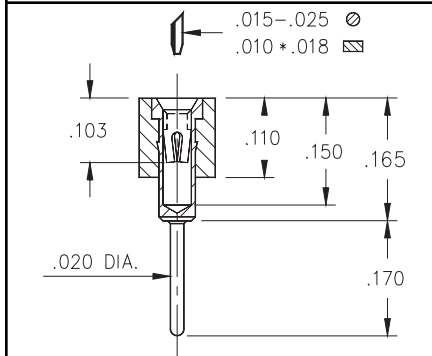


Fig. 2

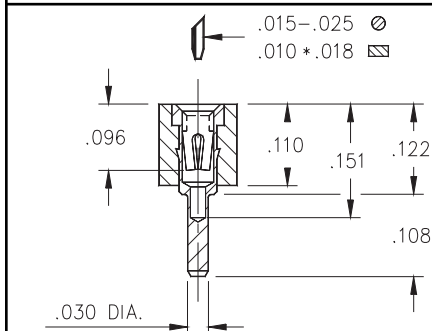


Fig. 3

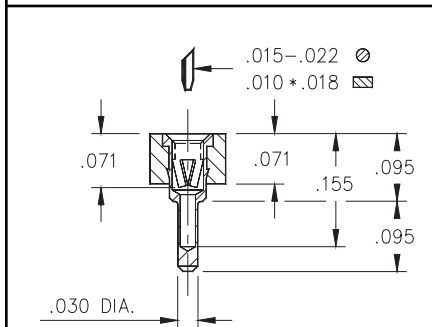


Fig. 4

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select $\diamond$ plating code.

SPECIFY PLATING CODE XX=	13 $\diamond$	91	93	99	41 $\diamond$	43 $\diamond$	44 $\diamond$
Sleeve (Pin)	10 μ " Au	200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn	200 μ " Sn	200 μ " Sn
Contact (Clip)	30 μ " Au	10 μ " Au	30 μ " Au	200 μ " Sn/Pb	10 μ " Au	30 μ " Au	200 μ " Sn

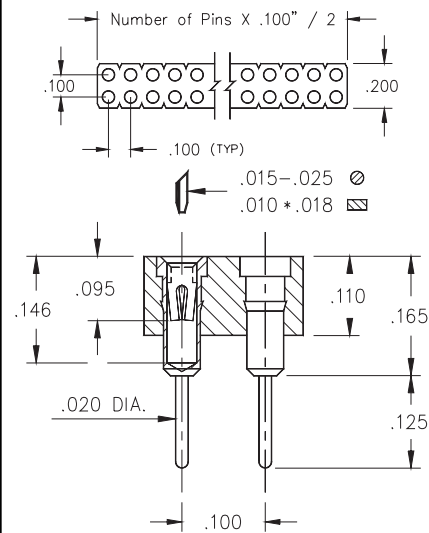


Fig. 1

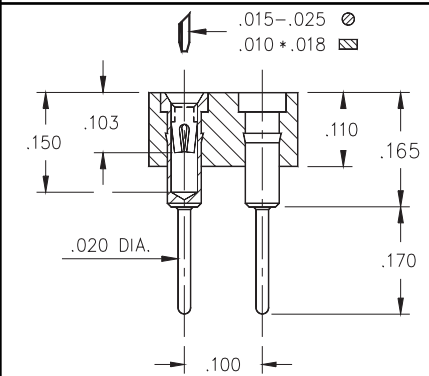


Fig. 2

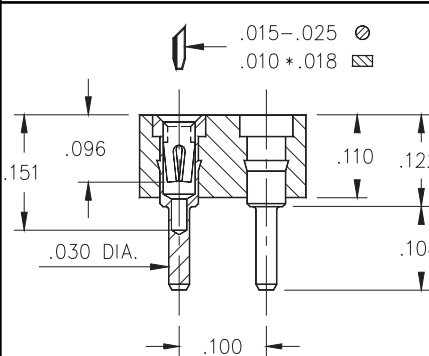


Fig. 3

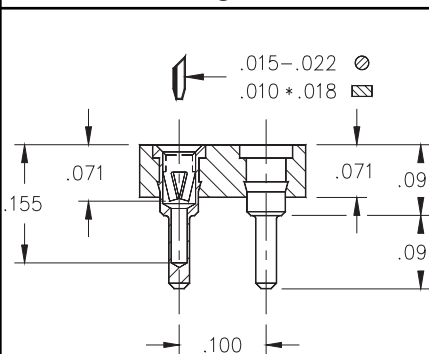
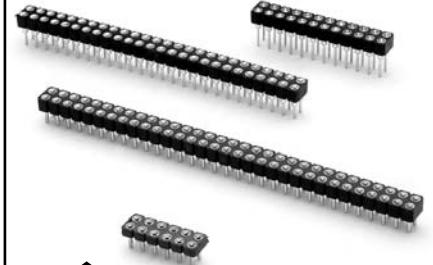


Fig. 4

- Series 41X double row strip sockets are on .100" grid.
- Various solder tails available: standard length, long for multi-layer boards, very low and ultra low profile. Using Mill-Max #1001, 0134, 0501 or 1534 pins (See pages 132, 133, 136) for details.
- Hi-Rel, 4-finger BeCu #12 & #30 contacts are rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 410...001	Standard Solder Tail
	410-XX-2_	-41-001000
	Specify # of pins	02-64
Fig. 2	Series 411...001	Long Solder Tail
	411-13-2_	-41-001000
	Specify # of pins	02-64
Fig. 3	Series 415...001	Very Low Profile
	415-XX-2_	-41-001000
	Specify # of pins	02-64
Fig. 4	Series 415...003	Ultra Low Profile
	415-XX-2_	-41-003000
	Specify # of pins	02-72

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au

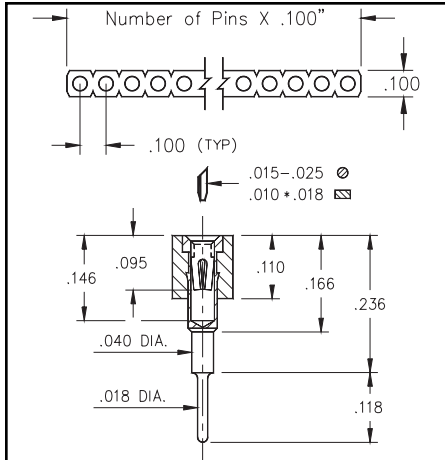


Fig. 1

- Elevated socket strips are available in 5 different heights:
- 316...006 uses pin # 0153-1
- 316...003 uses pin # 0153-2
- 316...007 uses pin # 0153-3
- 316...008 uses pin # 0153-4
- 316...001 uses pin # 0153-5
- See page 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.

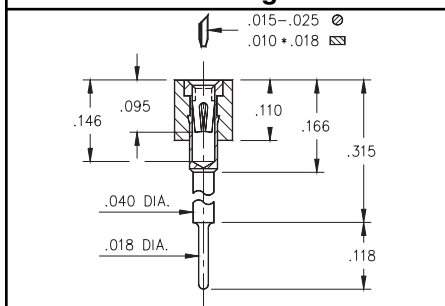
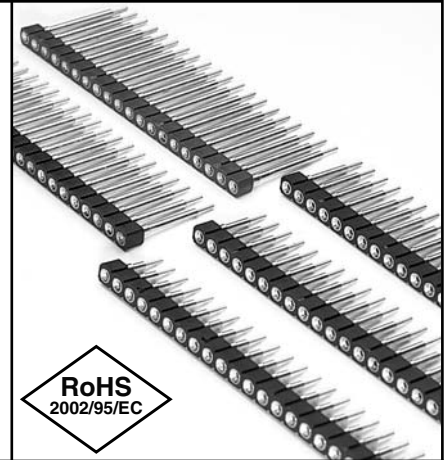


Fig. 2

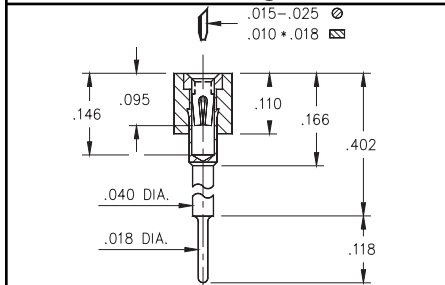


Fig. 3

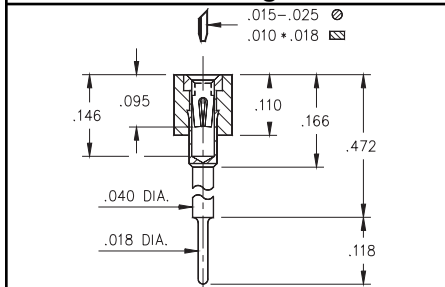


Fig. 4

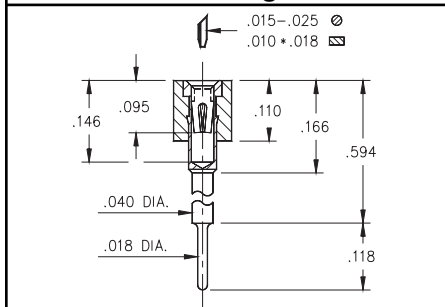


Fig. 5

Ordering Information

Fig. 1	Series 316...006	Standoff Height = .236
	316-XX-1_-41-006000	Specify # of pins → 01-64
Fig. 2	Series 316...003	Standoff Height = .315
	316-XX-1_-41-003000	Specify # of pins → 01-64
Fig. 3	Series 316...007	Standoff Height = .402
	316-XX-1_-41-007000	Specify # of pins → 01-64
Fig. 4	Series 316...008	Standoff Height = .472
	316-XX-1_-41-008000	Specify # of pins → 01-64
Fig. 5	Series 316...001	Standoff Height = .594
	316-XX-1_-41-001000	Specify # of pins → 01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=			93			43◇	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	

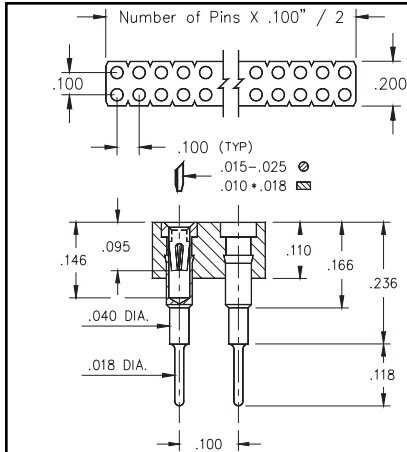


Fig. 1

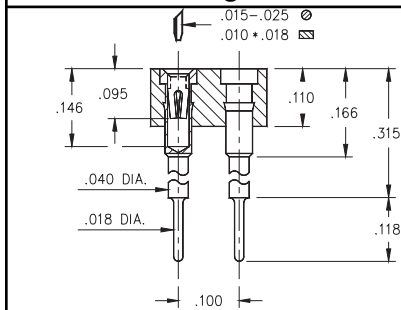


Fig. 2

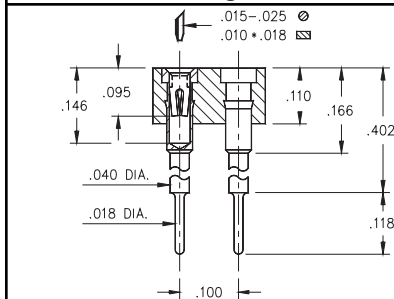


Fig. 3

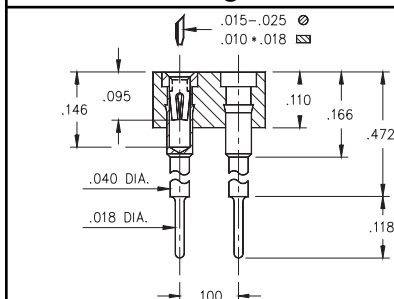


Fig. 4

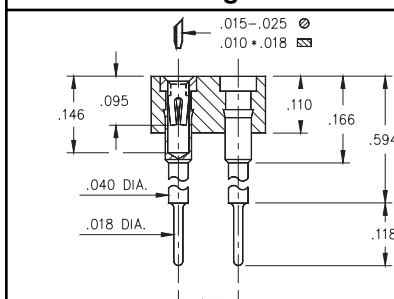
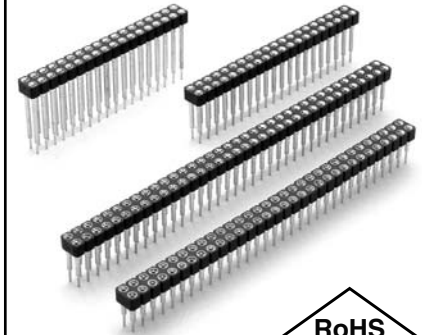


Fig. 5

- Elevated socket strips are available in 5 different standoff heights:
416...006 uses pin # 0153-1
416...003 uses pin # 0153-2
416...007 uses pin # 0153-3
416...008 uses pin # 0153-4
416...001 uses pin # 0153-5
See page 138 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 416...006 Standoff Height = .236"
	416-XX-2_-41-006000 Specify # of pins → 02-64
Fig. 2	Series 416...003 Standoff Height = .315"
	416-XX-2_-41-003000 Specify # of pins → 02-64
Fig. 3	Series 416...007 Standoff Height = .402"
	416-XX-2_-41-007000 Specify # of pins → 02-64
Fig. 4	Series 416...008 Standoff Height = .472"
	416-XX-2_-41-008000 Specify # of pins → 02-64
Fig. 5	Series 416...001 Standoff Height = .594"
	416-XX-2_-41-001000 Specify # of pins → 02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=		93			43◇	
Sleeve (Pin)		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)		30μ" Au			30μ" Au	

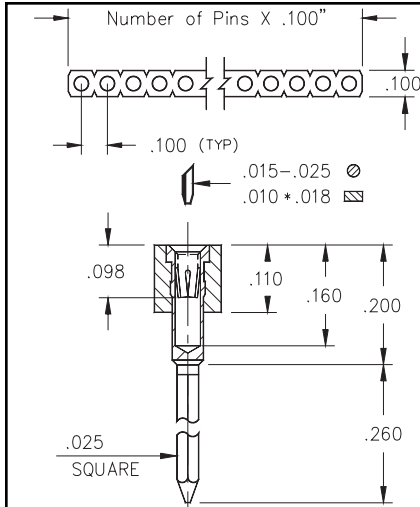
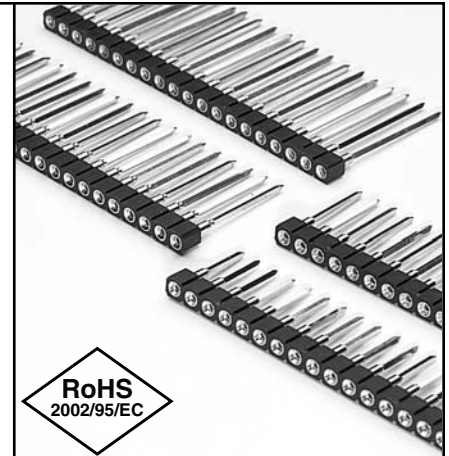


Fig. 1

- Wraposts available in 1 - 4 levels using MM pin numbers:
1-Level uses pin # 0040-1
2-Level uses pin # 0089-2
3-Level uses pin # 0088-3
4-Level uses pin # 0086-4
See page 166 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

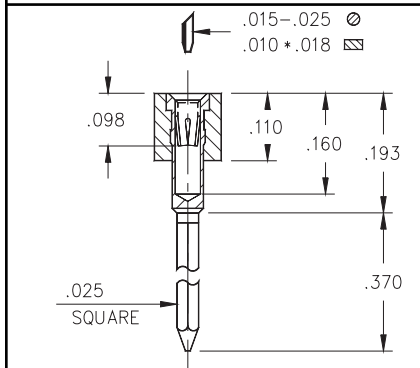


Fig. 2

Fig. 1

Series 321...001 1 Level Wrapost

321-13-1__-41-001000
Specify # of pins → 01-64

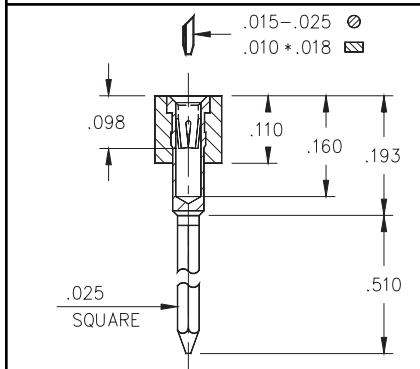


Fig. 3

Fig. 2

Series 322...001 2 Level Wrapost

322-XX-1__-41-001000
Specify # of pins → 01-64

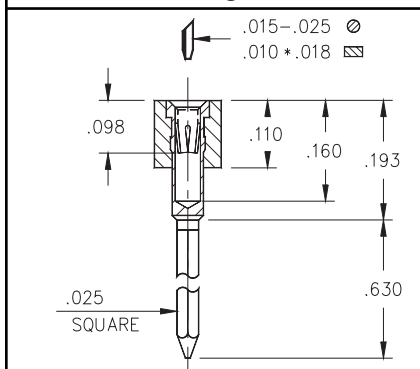


Fig. 4

Fig. 3

Series 323...001 3 Level Wrapost

323-XX-1__-41-001000
Specify # of pins → 01-64

For Electrical,
Mechanical & Enviromental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇		93			43◇	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	

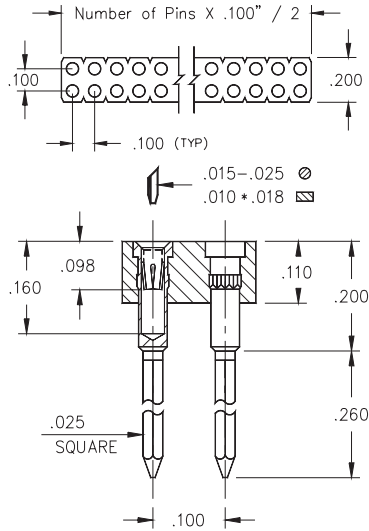


Fig. 1

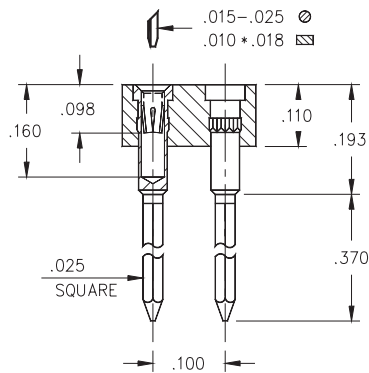


Fig. 2

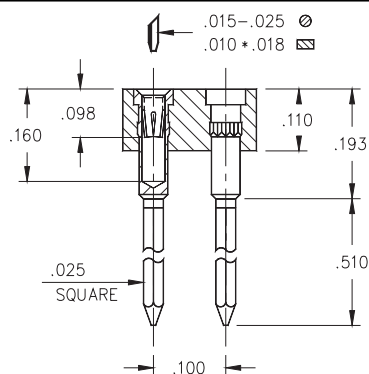


Fig. 3

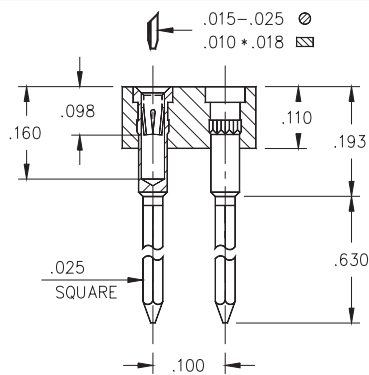
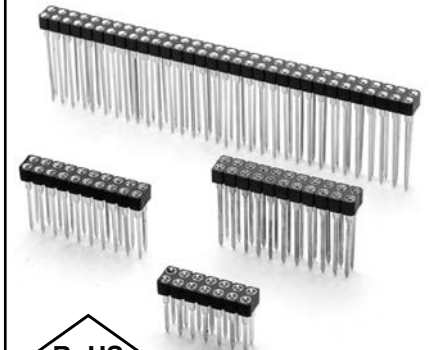


Fig. 4

- Wrapost double row strip sockets are available with 1 - 4 level wraposts:
1-Level uses pin # 0040-1
2-Level uses pin # 0089-2
3-Level uses pin # 0088-3
4-Level uses pin # 0086-4
See page 166 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 421...001	1 Level Wrapost
	421-XX-2_-41-001000	Specify # of pins → 02-64
Fig. 2	Series 422...001	2 Level Wrapost
	422-XX-2_-41-001000	Specify # of pins → 02-64
Fig. 3	Series 423...001	3 Level Wrapost
	423-XX-2_-41-001000	Specify # of pins → 02-64
Fig. 4	Series 424...002	4 Level Wrapost
	424-XX-2_-41-002000	Specify # of pins → 02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇	93	43◇
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au

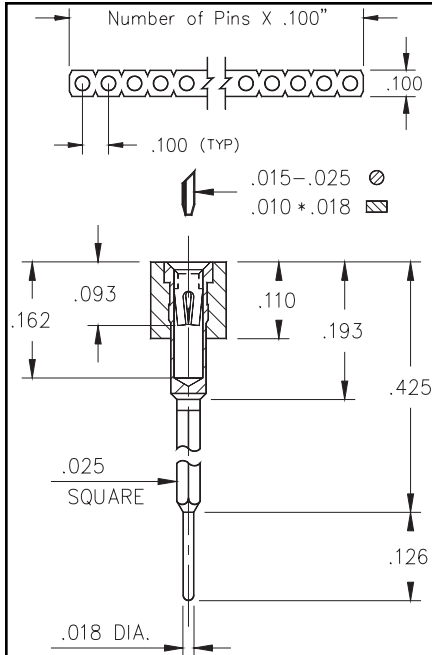


Fig. 1

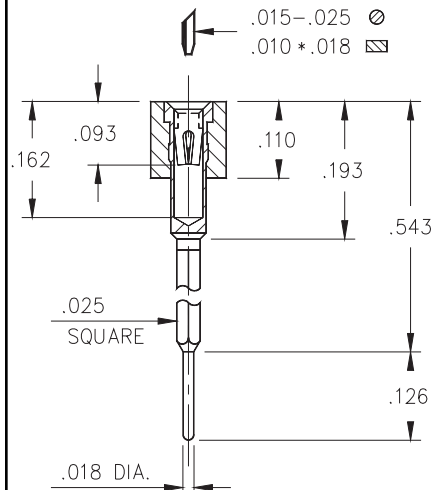


Fig. 2

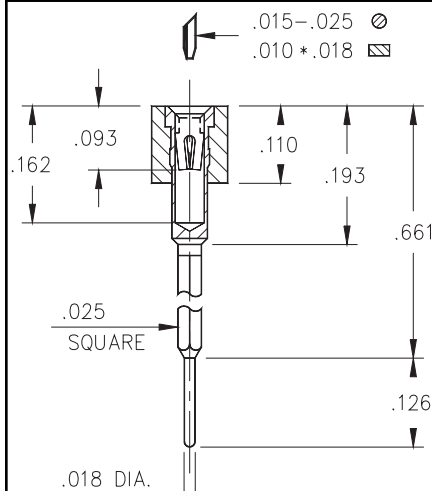


Fig. 3

- Wrappost / Solder tail combinations are available in 3 lengths using MM pin numbers:
326...001 uses pin # 2601
326...002 uses pin # 2602
326...003 uses pin # 2603
See page 167 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

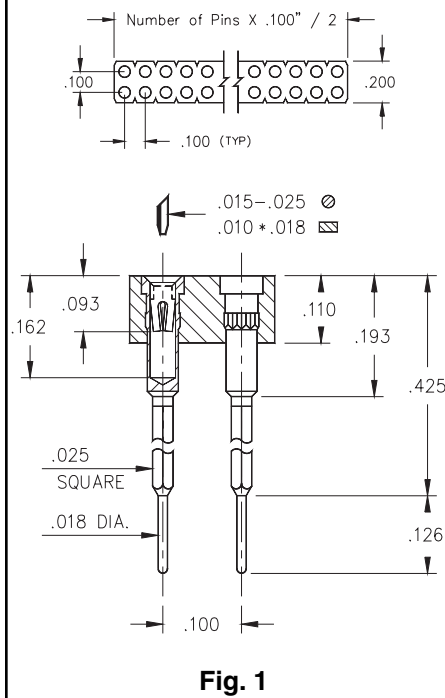
Fig. 1	Series 326...001	
	326-XX-1_ _-41-001000	
	Specify # of pins	01-64
Fig. 2	Series 326...002	
	326-XX-1_ _-41-002000	
	Specify # of pins	01-64
Fig. 3	Series 326...003	
	326-XX-1_ _-41-003000	
	Specify # of pins	01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select $\diamond$ plating code.

SPECIFY PLATING CODE XX=			93			43 $\diamond$	
Sleeve (Pin)			200 μ " Sn/Pb			200 μ " Sn	
Contact (Clip)			30 μ " Au			30 μ " Au	



- Wrappost / Solder tail combination for interconnect purposes are available in 3 lengths using pin numbers:

426...001 uses pin # 2601
 426...002 uses pin # 2602
 426...003 uses pin # 2603
 See page 167 for details.

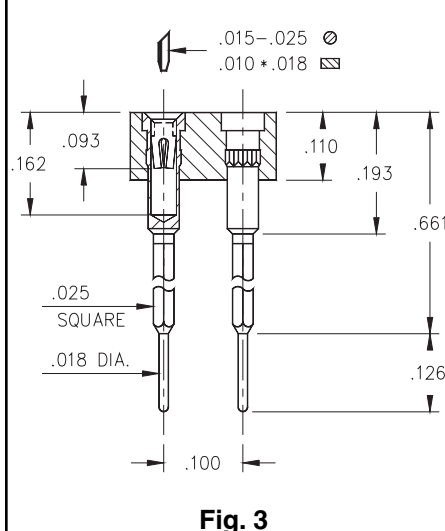
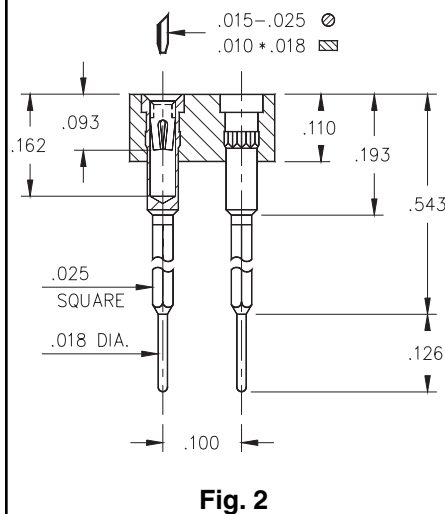
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 426...001	1 Level Wrappost
	426-XX-2_ _-41-001000	
	Specify # of pins	02-64
Fig. 2	Series 426...002	2 Level Wrappost
	426-XX-2_ _-41-002000	
	Specify # of pins	02-64
Fig. 3	Series 426...003	3 Level Wrappost
	426-XX-2_ _-41-003000	
	Specify # of pins	02-64



For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select plating code.

SPECIFY PLATING CODE XX=	13	93		43
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb		200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au		30μ" Au

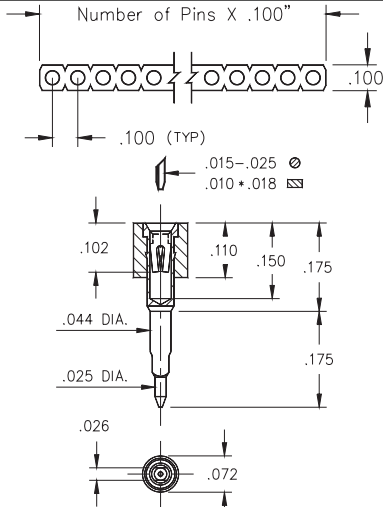


Fig. 1

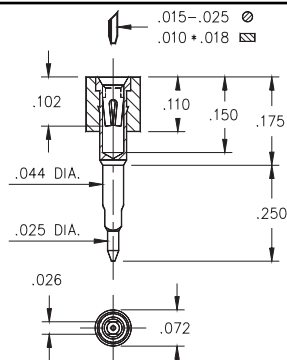


Fig. 2

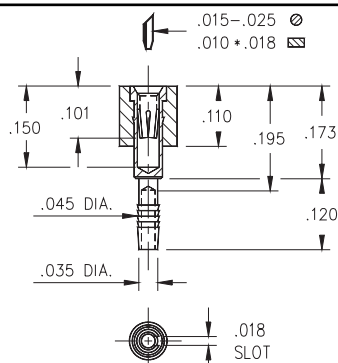


Fig. 3

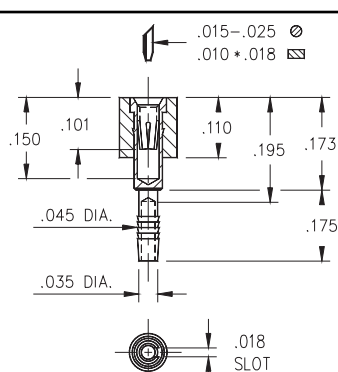


Fig. 4

- Unique compliant tail pins conform to the plated through-hole without stressing the inner layers of a multilayer board.
- Recommended plated through-hole for 304 series: .036"-.041" use a 1.1mm drill prior to plating. Using MM #0477 & #0478 pins, see page 133 for details.
- For 346 series: .040"±.003" finished plated through-hole. Using MM #4612 & #4613 pins, see page 133 for details. Patent No. 4,799,904.
- Hi-Rel, 4 finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Series 304...770

SOLDERLESS PRESS-FIT

Fig. 1

(For .062" Thick Boards)

304-13-1__-41-770000

Specify # of pins

01-64

Series 304...780

SOLDERLESS PRESS-FIT

Fig. 2

(For .125" Thick Boards)

304-13-1__-41-780000

Specify # of pins

01-64

Mill-Max recommends plating Code 13 for Series 304...770 and 304...780

Series 346...012

COMPLIANT SOLDERLESS PRESS-FIT

Fig. 3

(For .060-.100" Thick Boards)

346-XX-1__-41-012000

Specify # of pins

01-64

Series 346...013

COMPLIANT SOLDERLESS PRESS-FIT

Fig. 4

(For .090-.130" Thick Boards)

346-XX-1__-41-013000

Specify # of pins

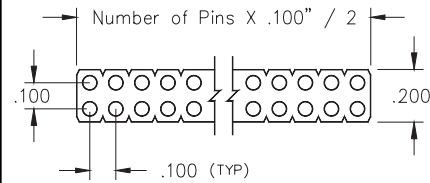
01-64

For Electrical, Mechanical & Environmental Data, See pg. 4

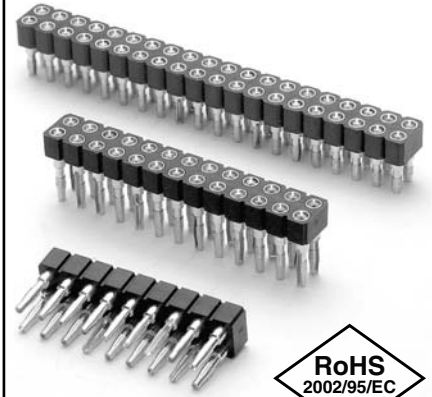
XX=Plating Code See Below

For RoHS compliance select ◇ plating code.

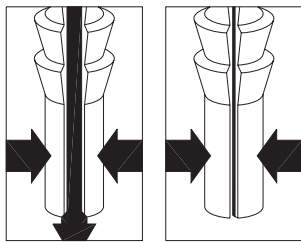
SPECIFY PLATING CODE XX=	13◇		93	99		43◇	44◇
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb	200μ" Sn/Pb		200μ" Sn	200μ" Sn
Contact (Clip)	30μ" Au		30μ" Au	200μ" Sn/Pb		30μ" Au	200μ" Sn



- Compliant tail solderless press-fit: MM #4612 or #4613 pins. Use series 446...012 for .060"- .120" thick boards, and series 446...013 for .090"- .130" thick boards. See Page 133 for details.
- Compliant tail receptacles can be inserted and removed without any degradation of the plated through-hole.
- Hi-Rel, 4 finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



APPLICATION OF COMPLIANT TAIL PINS



Mill-Max's patented* compliant tail features precision-machined pins that are hollow and slotted to conform to a .040" $\pm$.003" diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

*Patent No. 4,799,904.

Ordering Information

Fig. 1

Series 446...012

446-XX-2_-41-012000
Specify # of pins $\rightarrow$ 02-64

Fig. 2

Series 446...013

446-XX-2_-41-013000
Specify # of pins $\rightarrow$ 02-64

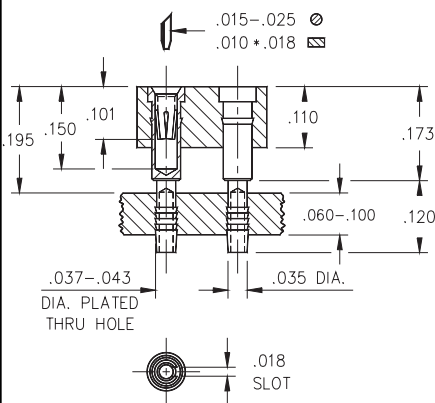


Fig. 1

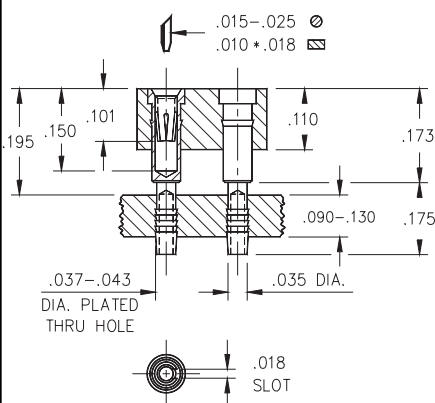


Fig. 2

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select $\diamond$ plating code.

SPECIFY PLATING CODE XX=	13 $\diamond$	93	99	43 $\diamond$	44 $\diamond$
Sleeve (Pin)	10 μ " Au	200 μ " Sn/Pb	200 μ " Sn/Pb	200 μ " Sn	200 μ " Sn
Contact (Clip)	30 μ " Au	30 μ " Au	200 μ " Sn/Pb	30 μ " Au	200 μ " Sn

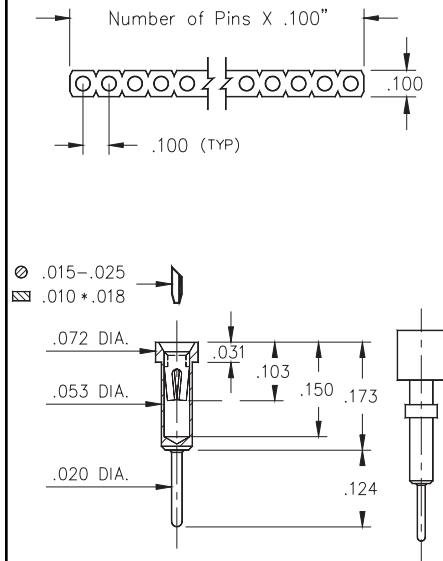
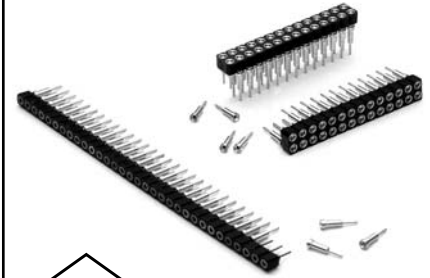


Fig. 1

- Standard solder tail receptacles can be mounted as a low profile receptacle or by the solder tail for use in smaller diameter holes.
- Series 712 uses MM #0255 pins. See page 136 for details.
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1

Single Row (.028 or .055 min. mounting holes)

712-XX-1__-41-001000
Specify # of pins → 01-64

Fig. 2

Double Row (.028 or .055 min. mounting holes)

712-XX-2__-41-001000
Specify # of pins → 02-64

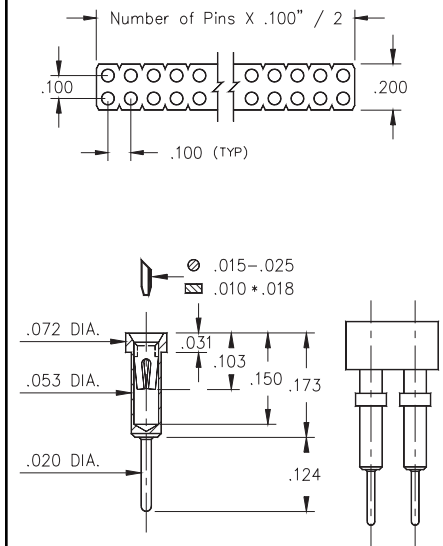


Fig. 2

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	13◇		93			43◇	
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb			200μ" Sn	
Contact (Clip)	30μ" Au		30μ" Au			30μ" Au	

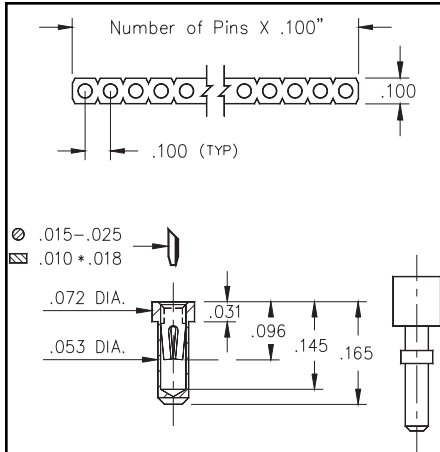
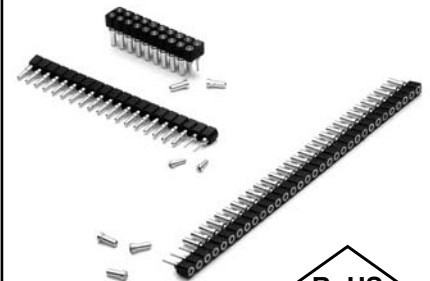


Fig. 1

- Low profile receptacles sit .031" above the board.
- Series 714 uses MM #1401 & MM #1407 pin receptacles. See pages 128 and 141 for details.
- Hi-Rel, 4-finger BeCu #30 contact is used in the #1401 receptacle and a BeCu #11 contact is used in the #1407. Both contacts are rated at 3 amps. See pages 217 & 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

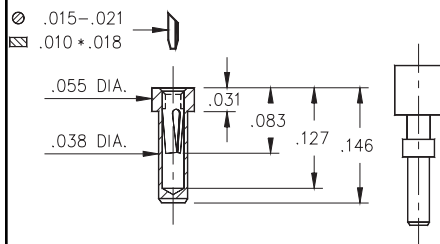


Fig. 2

Fig. 1

Single Row (.055 min. mounting hole)

714-XX-1__-41-001000
Specify # of pins → 01-64

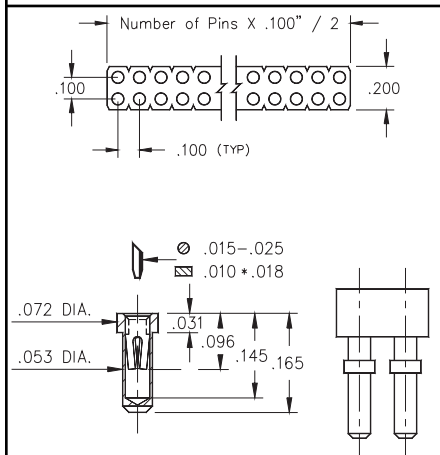


Fig. 3

Fig. 3

Single Row (.039 min. mounting hole)

714-XX-1__-31-007000
Specify # of pins → 01-64

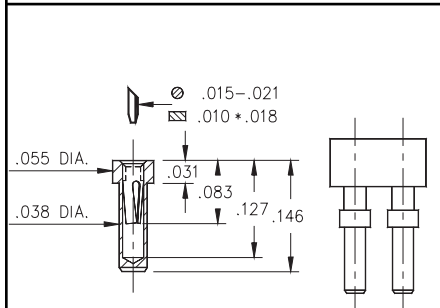


Fig. 4

Fig. 4

Double Row (.055 min. mounting hole)

714-XX-2__-41-001000
Specify # of pins → 02-64

Double Row (.039 min. mounting hole)

714-XX-2__-31-007000
Specify # of pins → 02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=			93			43◇	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	

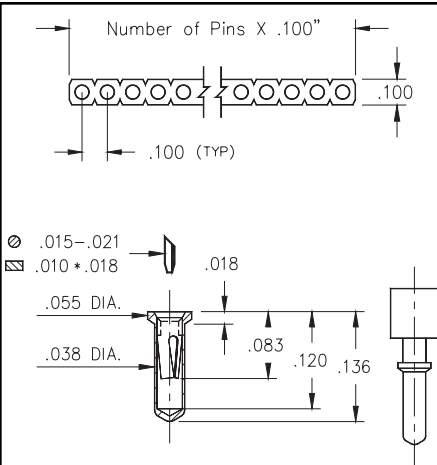
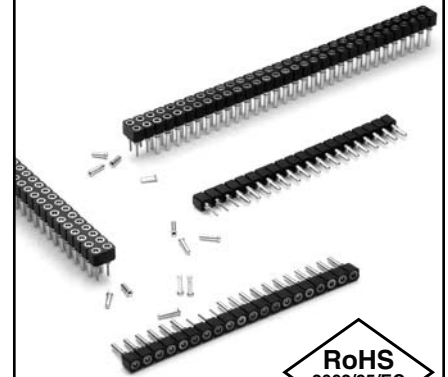


Fig. 1

- Ultra low profile receptacles sit .018" above the board.
- Series 714 uses MM #0552-1 and MM #0552-2 pin receptacles. See page 129 for details.
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 217 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

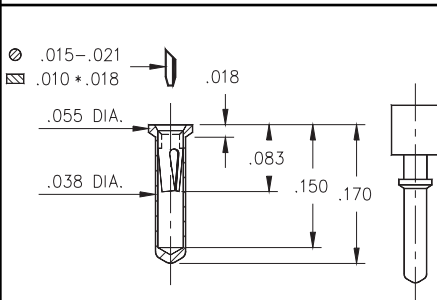


Fig. 2

Fig. 1

Single Row (.039 min. mounting hole)

714-XX-1__-31-012000
Specify # of pins → 01-64

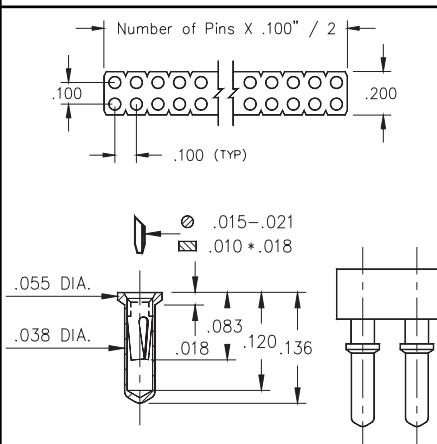


Fig. 3

Fig. 3

Single Row (.039 min. mounting hole)

714-XX-1__-31-018000
Specify # of pins → 01-64

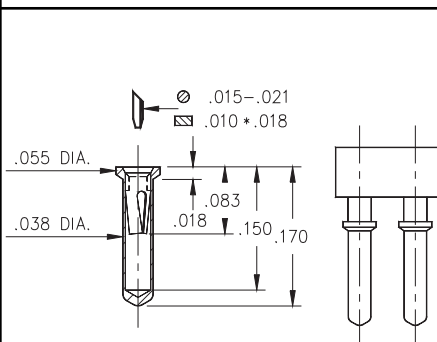


Fig. 4

Fig. 4

Double Row (.039 min. mounting hole)

714-XX-2__-31-012000
Specify # of pins → 02-64

Double Row (.039 min. mounting hole)

714-XX-2__-31-018000
Specify # of pins → 02-64

For Electrical,
Mechanical & Enviromental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=			93			43◇	
Sleeve (Pin)			200μ" Sn/Pb			200μ" Sn	
Contact (Clip)			30μ" Au			30μ" Au	

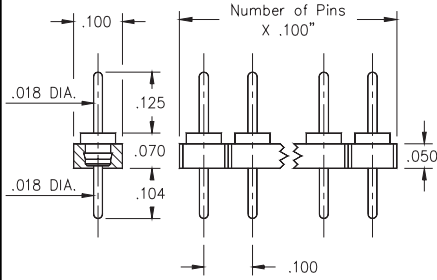


Fig. 1

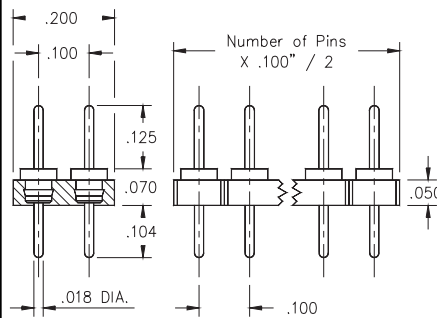


Fig. 2

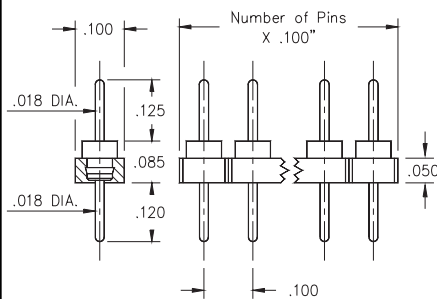


Fig. 3

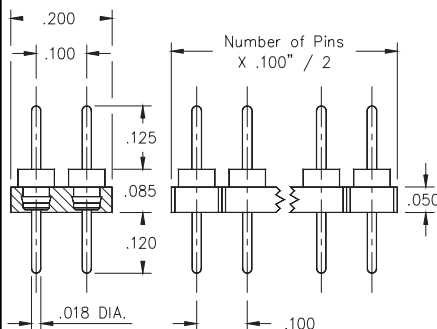
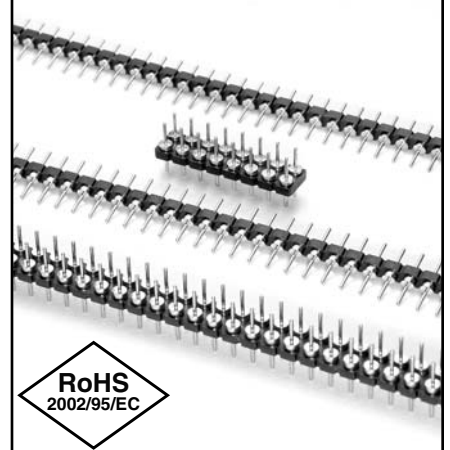


Fig. 4

- Series 335 and 435 single and double row PCB interconnects offer the lowest profile available .070".
- Series 364 and 464 single and double row PCB interconnects offer .085" profile above board.
- Series 335 and 435 use MM #3516 pins. See page 179 for details.
- Series 364 and 464 use MM #6458 pins. See page 180 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Single Row	.070" Profile Pin Header
	335-XX-1 _ _ -00-160000 Specify # of pins → 01-32	
Fig. 2	Double Row	.070" Profile Pin Header
	435-XX-2 _ _ -00-160000 Specify # of pins → 02-72	
Fig. 3	Single Row	.085" Profile Pin Header
	364-10-1 _ _ -00-580000 Specify # of pins → 01-32	
Fig. 4	Double Row	.085" Profile Pin Header
	464-10-2 _ _ -00-580000 Specify # of pins → 02-72	

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10 ◇	90	40 ◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

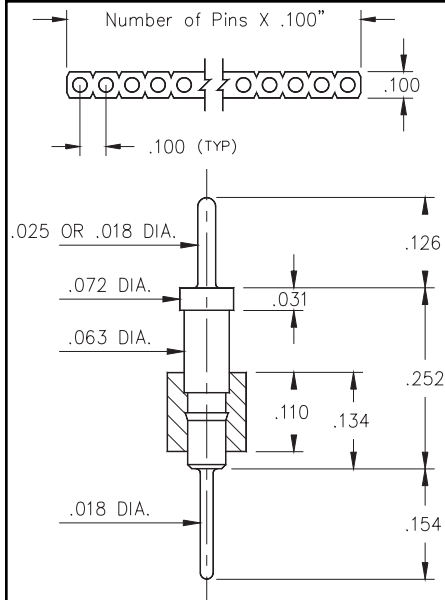


Fig. 1

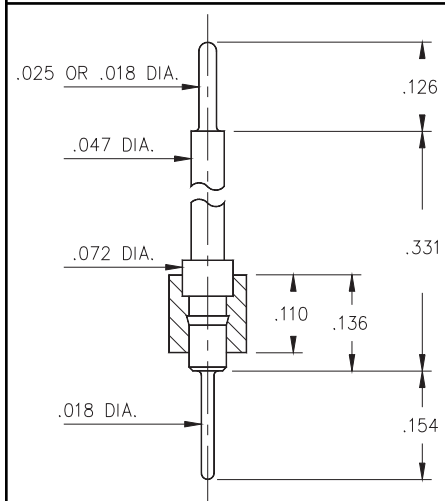


Fig. 2

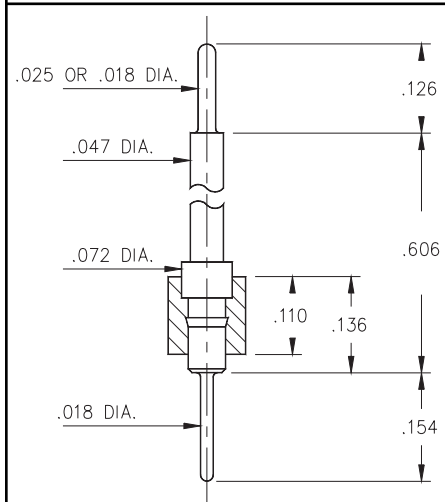
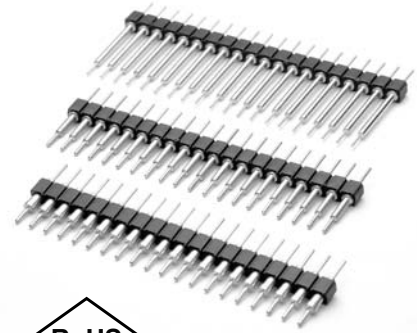


Fig. 3

- Series 351 Interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other, see series:
351...003 uses pin #5503
351...004 uses pin #5504
351...005 uses pin #5505
- .018" pluggable solder tails are available at both ends, please see series:
351...009 uses pin #5509
351...010 uses pin #5510
351...011 uses pin #5511
See pages 179 & 181 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 351...003	.018 / .025 Solder Tails
	351-10-1__-00-003000	
	Specify # of pins	01-64
	Series 351...009	.018 / .018 Solder Tails
Fig. 2	351-10-1__-00-009000	
	Specify # of pins	01-64
	Series 351...004	.018 / .025 Solder Tails
	351-10-1__-00-004000	
Fig. 3	Specify # of pins	01-64
	Series 351...010	.018 / .018 Solder Tails
	351-10-1__-00-010000	
	Specify # of pins	01-64
Fig. 3	Series 351...005	.018 / .025 Solder Tails
	351-10-1__-00-005000	
	Specify # of pins	01-64
	Series 351...011	.018 / .018 Solder Tails
	351-10-1__-00-011000	
	Specify # of pins	01-64
For Electrical, Mechanical & Enviromental Data, See pg. 4 For RoHS compliance select ◇ plating code.		
PLATING CODE =		
Pin Plating 		

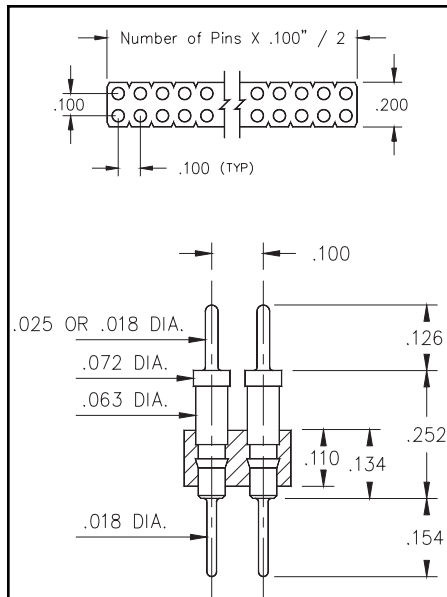


Fig. 1

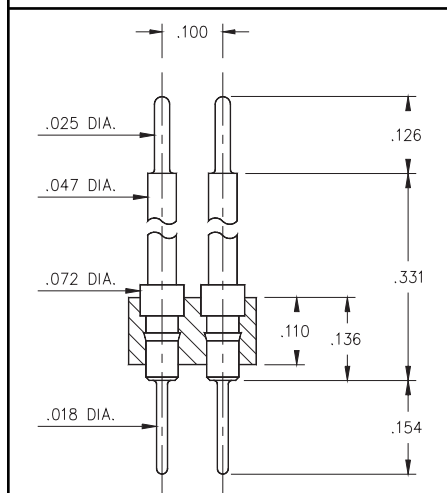


Fig. 2

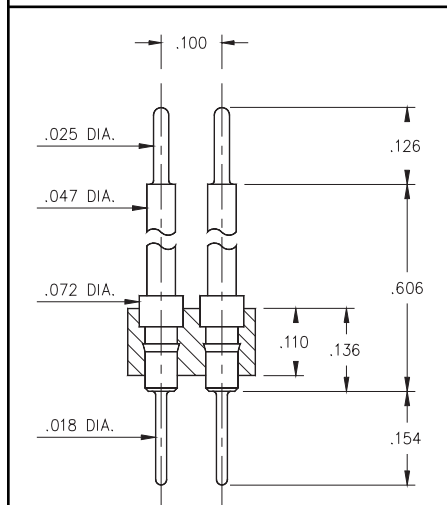


Fig. 3

- Series 451 Interconnect header strips come in three lengths with .018" dia. pluggable solder tails at one end and .025" dia. pins at the other, see series:
451...003 uses pin #5503
451...004 uses pin #5504
451...005 uses pin #5505
- .018" pluggable solder tails are available at both ends, please see series:
451...009 uses pin #5509
451...010 uses pin #5510
451...011 uses pin #5511
See pages 179 & 181 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 451...003	.018 / .025 Solder Tails
	451-10-2_ _-00-003000	
	Specify # of pins	02-64
	Series 451...009	.018 / .018 Solder Tails
Fig. 2	451-10-2_ _-00-009000	
	Specify # of pins	02-64
	Series 451...004	.018 / .025 Solder Tails
	451-10-2_ _-00-004000	
Fig. 3	Specify # of pins	02-64
	Series 451...010	.018 / .018 Solder Tails
	451-10-2_ _-00-010000	
	Specify # of pins	02-64
Fig. 3	Series 451...005	.018 / .025 Solder Tails
	451-10-2_ _-00-005000	
	Specify # of pins	02-64
	Series 451...011	.018 / .018 Solder Tails
Fig. 3	451-10-2_ _-00-011000	
	Specify # of pins	02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

For RoHS compliance
select ◇ plating code.

PLATING CODE =

10◇

Pin Plating



10μ" Au

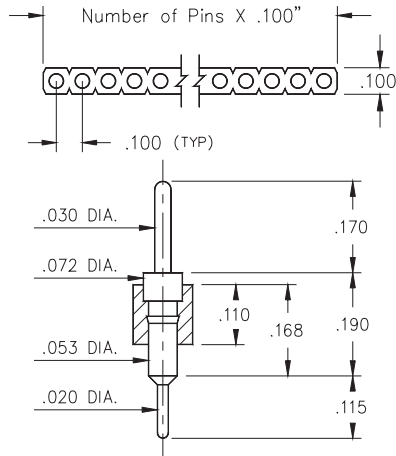


Fig. 1

- Series 334 Interconnect header strips are available in 5 lengths:

334...020 uses pin #3402 (L = .190")
 334...010 uses pin #3401 (L = .236")
 334...050 uses pin #3405 (L = .315")
 334...000 uses pin #3400 (L = .606")
 334...100 uses pin #3410 (L = 1.070")
 See pages 182 for details.

- Strips come with .020" pluggable solder tails at one end and .030" tails at the other.
- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1

Series 334...020 .020 / .030 Solder Tails

334-XX-1 _ _ -00-020000

Specify # of pins → 01-64

Fig. 2

Series 334...010 .020 / .030 Solder Tails

334-XX-1 _ _ -00-010000

Specify # of pins → 01-64

Fig. 3

Series 334...050 .020 / .030 Solder Tails

334-XX-1 _ _ -00-050000

Specify # of pins → 01-64

Fig. 4

Series 334...000 .020 / .030 Solder Tails

334-XX-1 _ _ -00-000000

Specify # of pins → 01-64

Fig. 5

Series 334...100 .020 / .030 Solder Tails

334-XX-1 _ _ -00-100000

Specify # of pins → 01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

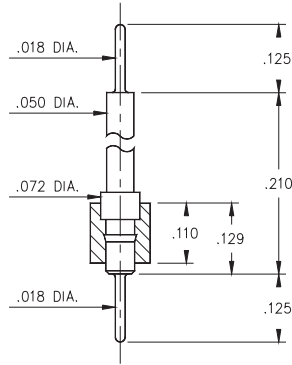
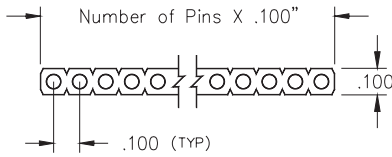


Fig. 1

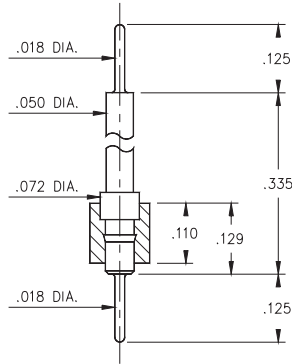


Fig. 2

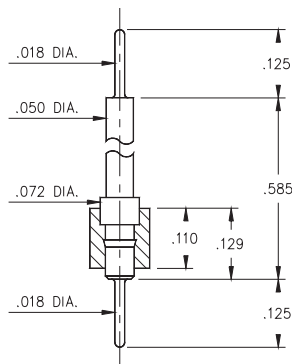


Fig. 3

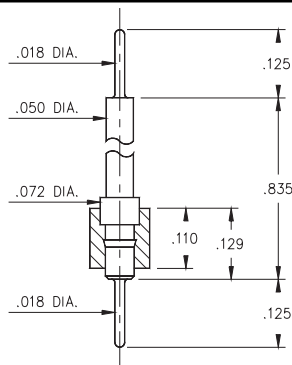


Fig. 4

- Series 342 Interconnect Header strips come in four heights with .018" dia. pluggable solder tails at both ends.

342...591 uses pin #4259-1 (L = .210")
342...592 uses pin #4259-2 (L = .335")
342...593 uses pin #4259-3 (L = .585")
342...594 uses pin #4259-4 (L = .835")
See pages 179 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

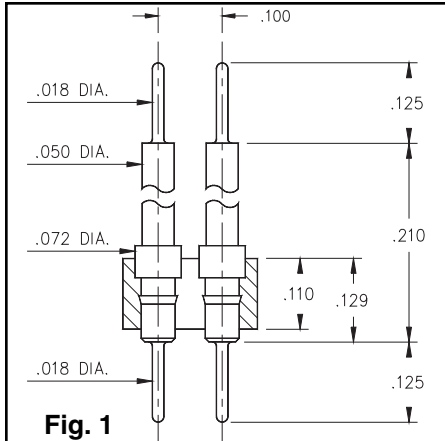
Fig. 1	Series 342...591	.018 / .018	Solder Tails
	342-XX-1__-00-591000		
	Specify # of pins	→	01-64
Fig. 2	Series 342...592	.018 / .018	Solder Tails
	342-XX-1__-00-592000		
	Specify # of pins	→	01-64
Fig. 3	Series 342...593	.018 / .018	Solder Tails
	342-XX-1__-00-593000		
	Specify # of pins	→	01-64
Fig. 4	Series 342...594	.018 / .018	Solder Tails
	342-XX-1__-00-594000		
	Specify # of pins	→	01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

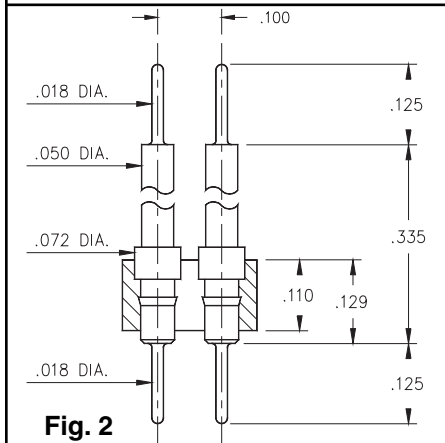
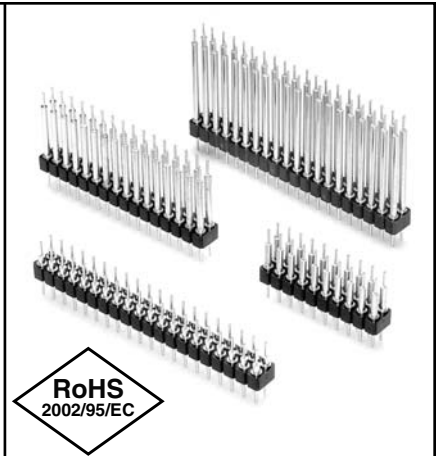
SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	



- Series 442 Interconnect Header strips come in four heights with .018" dia. pluggable solder tails at both ends.

442...591 uses pin #4259-1 (L = .210")
 442...592 uses pin #4259-2 (L = .335")
 442...593 uses pin #4259-3 (L = .585")
 442...594 uses pin #4259-4 (L = .835")
 See pages 179 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1

Series 442...591 .018 / .018 Interconnect

442-XX-2_-00-591000

Specify # of pins → 02-64

Fig. 2

Series 442...592 .018 / .018 Interconnect

442-XX-2_-00-592000

Specify # of pins → 02-64

Fig. 3

Series 442...593 .018 / .018 Interconnect

442-XX-2_-00-593000

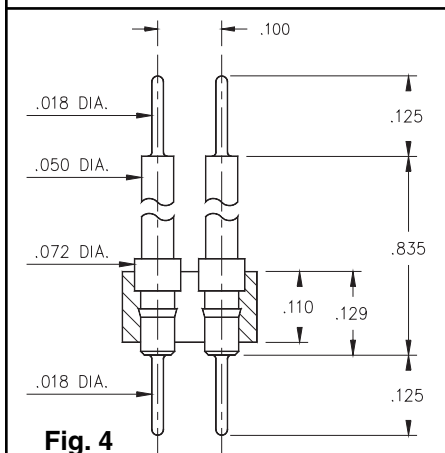
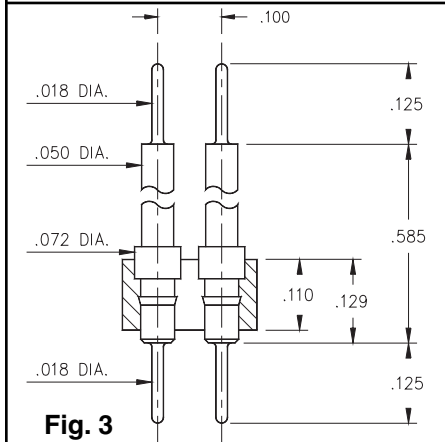
Specify # of pins → 02-64

Fig. 4

Series 442...594 .018 / .018 Interconnect

442-XX-2_-00-594000

Specify # of pins → 02-64



For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

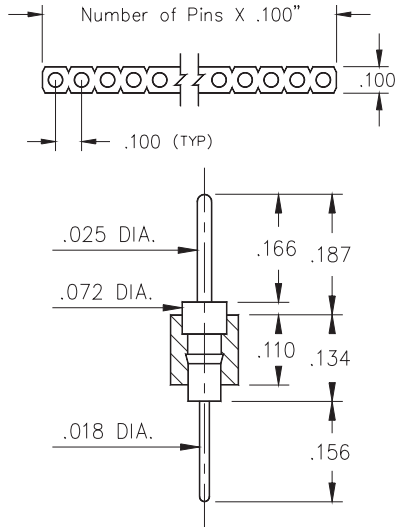


Fig. 1

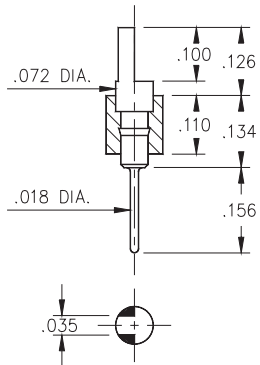


Fig. 2

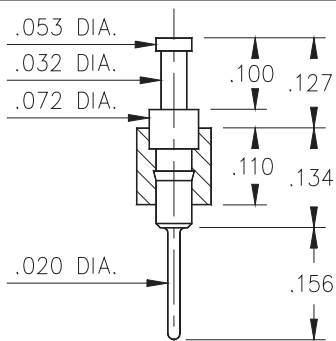


Fig. 3

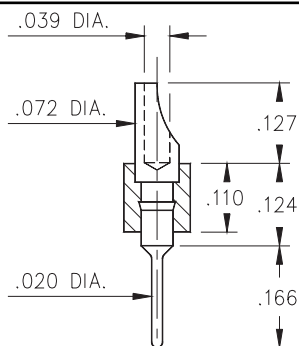


Fig. 4

- Series 350, 360, 370 & 380 single row Header strips come with various styles (pin, slotted head, turret and solder cup) with pluggable solder tails.

350...001 uses pin #0290
360...001 uses pin #0282
370...001 uses pin #0700
380...001 uses pin #8000
See pages 182 & 183 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1

Series 350...001 .025 Pin / .018 Solder Tail

350-XX-1__-00-001000

Specify # of pins → 01-64

Fig. 2

Series 360...001 Slotted Head / Solder Tail

360-XX-1__-00-001000

Specify # of pins → 01-64

Fig. 3

Series 370...001 Turret / Solder Tail

370-XX-1__-00-001000

Specify # of pins → 01-64

Fig. 4

Series 380...001 Solder Cup / Solder Tail

380-XX-1__-00-001000

Specify # of pins → 01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

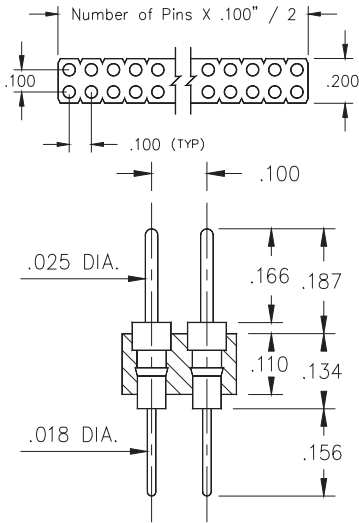
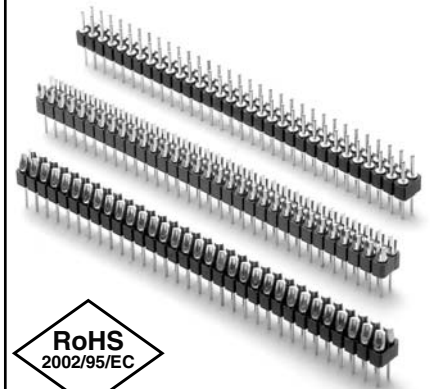


Fig. 1

- Series 450, 460, 470 & 480 double row Header strips come with various styles (pin, slotted head, turret and solder cup) with pluggable solder tails.

450...001 uses pin #0290
 460...001 uses pin #0282
 470...001 uses pin #0700
 480...001 uses pin #8000
 See pages 182 & 183 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1

Series 450...001 Pin / Solder Tail

450-XX-2__-00-001000

Specify # of pins → 02-64

Fig. 2

Series 460...001 Slotted Head / Solder Tail

460-10-2__-00-001000

Specify # of pins → 02-64

Fig. 3

Series 470...001 Turret / Solder Tail

470-XX-2__-00-001000

Specify # of pins → 02-64

Fig. 4

Series 480...001 Solder Cup / Solder Tail

480-10-2__-00-001000

Specify # of pins → 02-64

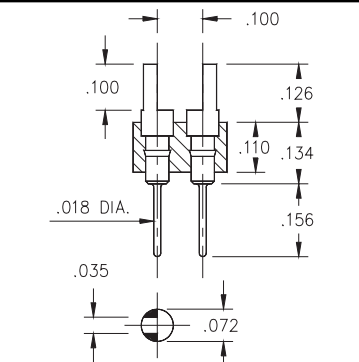


Fig. 2

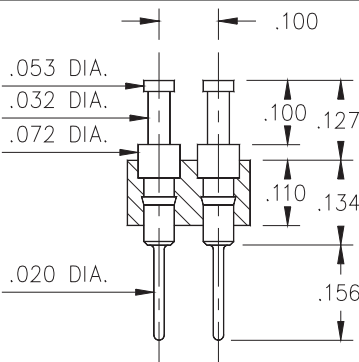


Fig. 3

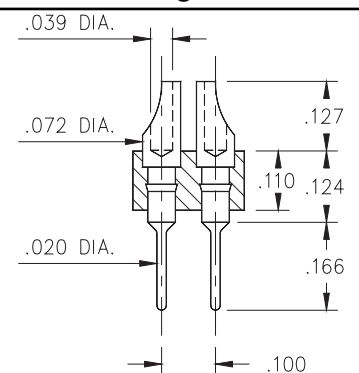


Fig. 4

For Electrical,
 Mechanical & Environmental
 Data, See pg. 4

XX=Plating Code
 See Below

For RoHS compliance
 select ◇ plating code.

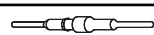
SPECIFY PLATING CODE XX=

10◇

90

40◇

Pin Plating



10μ" Au

200μ" Sn/Pb

200μ" Sn

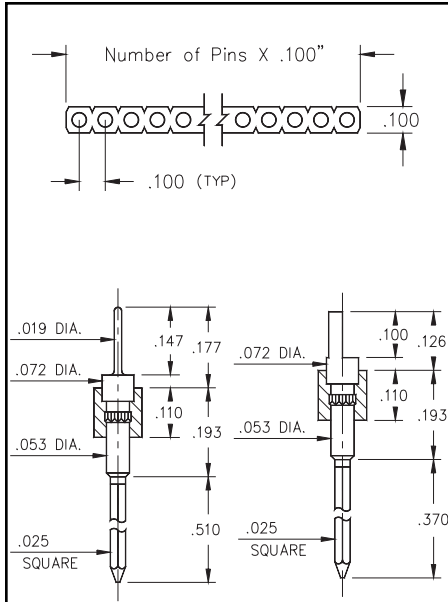


Fig. 1

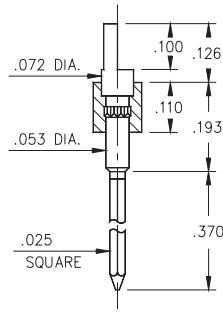


Fig. 2

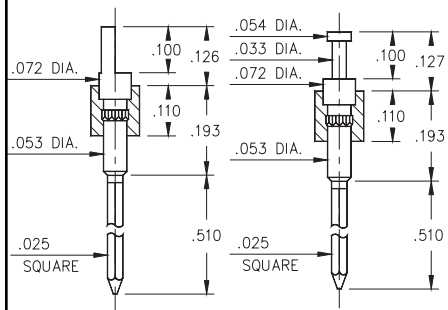


Fig. 3

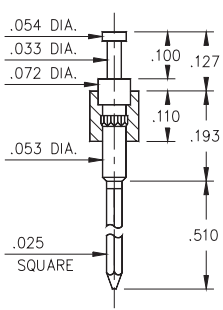


Fig. 4

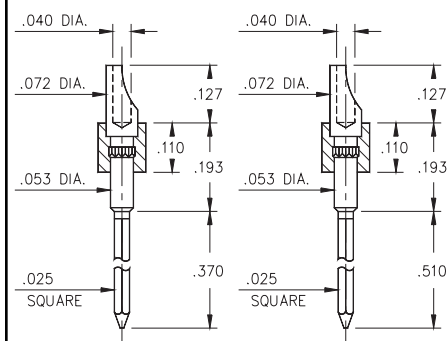


Fig. 5

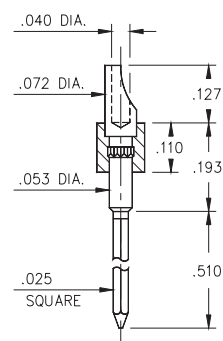


Fig. 6

- Series 353, 362, 363, 373, 382 & 383 single row Header strips come with various styles (pin, slotted head, turret and solder cup) with wrapost tails.

353...001 uses pin #5301
362...001 uses pin #1106-2
363...001 uses pin #1106-3
373...001 uses pin #0730-3
382...001 uses pin #8301-2
383...001 uses pin #8301-3
See pages 194 & 195 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 353...001 Pin / 3 Level Wrapost
	353-XX-1__-00-001000 Specify # of pins → 01-64
Fig. 2	Series 362...001 Slotted Head / 2 Level Wrapost
	362-XX-1__-00-001000 Specify # of pins → 01-64
Fig. 3	Series 363...001 Slotted Head / 3 Level Wrapost
	363-XX-1__-00-001000 Specify # of pins → 01-64
Fig. 4	Series 373...001 Turret / 3 Level Wrapost
	373-XX-1__-00-001000 Specify # of pins → 01-64
Fig. 5	Series 382...001 Solder Cup / 2 Level Wrapost
	382-XX-1__-00-001000 Specify # of pins → 01-64
Fig. 6	Series 383...001 Solder Cup / 3 Level Wrapost
	383-XX-1__-00-001000 Specify # of pins → 01-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

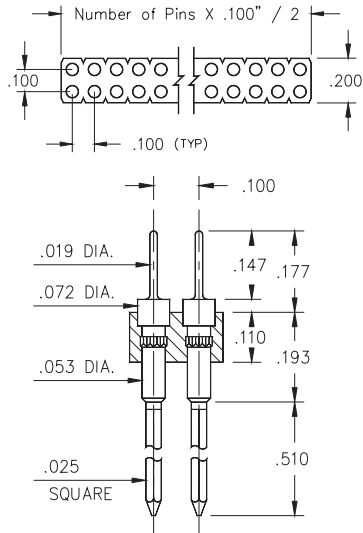


Fig. 1

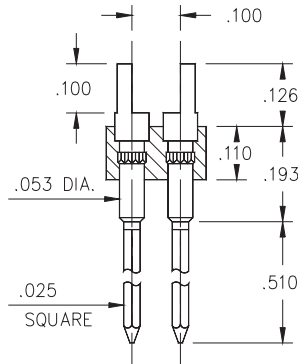


Fig. 2

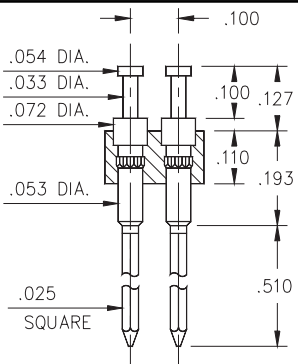


Fig. 3

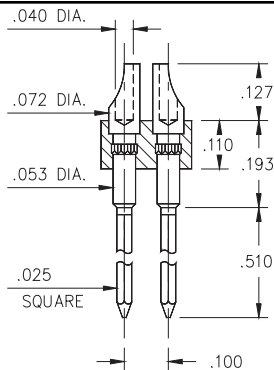
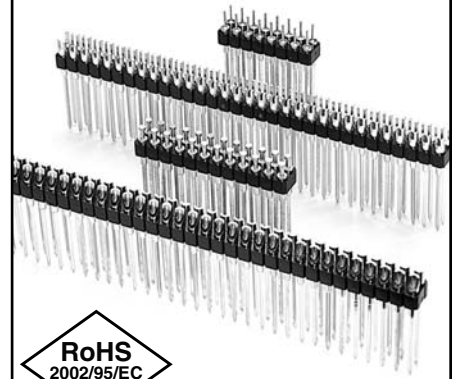


Fig. 4

- Series 453, 463, 473, and 483 double row Header strips come with various styles (pin, slotted head, turret and solder cup) with wrapost tails.

453...001 uses pin #5301
463...001 uses pin #1106-3
473...001 uses pin #0730-3
483...001 uses pin #8301-3
See pages 194 & 195 for details.

- Insulators are high temp. thermoplastic.



Ordering Information

Fig. 1	Series 453...001 Pin / 3 Level Wrapost
	453-10-2_ _-00-001000 Specify # of pins → 02-64
Fig. 2	Series 463...001 Slotted Head / 3 Level Wrapost
	463-XX-2_ _-00-001000 Specify # of pins → 02-64
Fig. 3	Series 473...001 Turret / 3 Level Wrapost
	473-XX-2_ _-00-001000 Specify # of pins → 02-64
Fig. 4	Series 483...001 Solder Cup / 3 Level Wrapost
	483-XX-2_ _-00-001000 Specify # of pins → 02-64

For Electrical,
Mechanical & Environmental
Data, See pg. 4

XX=Plating Code
See Below

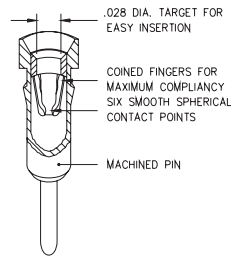
For RoHS compliance
select ◇ plating code.

SPECIFY PLATING CODE XX=	10◇	90	40◇	
Pin Plating	10μ" Au	200μ" Sn/Pb	200μ" Sn	

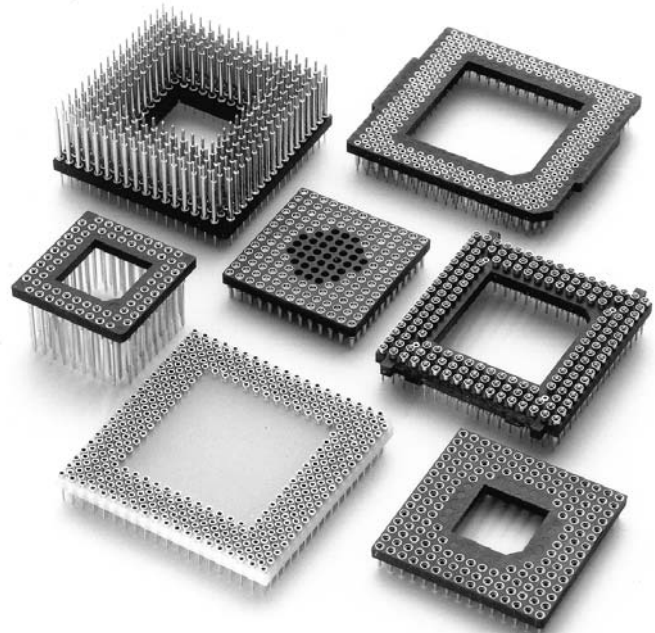
Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion/extraction of the device. Standard low force (M-M #32) contact is used for pin counts up to 150, ultra-low force (M-M #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (M-M #43) is recommended for 250 pins or more.

CONTACT DETAIL

PGA sockets all have precision-machined pins, this offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.



Insulator bodies are molded from high temp. PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



TECHNICAL SPECIFICATIONS

Materials

Insulator body:

High Temp. glass-filled thermoplastic polyester (PCT)
Heat deflection temperature (HDT @ 264 PSI) = 255°C(490°F)
Self-extinguishing, rated UL94V-0

Receptacle (Sleeve):

Screw machined brass (ASTM-B16-00), plated 10μ" gold, 200μ" tin or 200μ" tin-lead (SnPb 90/10) over 100μ" nickel.

Pin:

Screw machined brass (ASTM-B16-00), plated 10μ" gold, 200μ" tin or 200μ" tin-lead (SnPb 90/10) over 100μ" nickel.

Contact (clip):

Stamped beryllium-copper (ASTM-B194-01), plated 10μ" or 30μ" gold over 50μ" nickel.

Mechanical Data

-Insertion characteristics:

Measured with a polished steel gauge .018 diameter

Low force M-M#32 (01 suffix) typ. insertion force 50 grams
typ. extraction force 30 grams

Ultra-low force M-M#35 (02 suffix) typ. insertion force 25 grams
typ. extraction force 15 grams

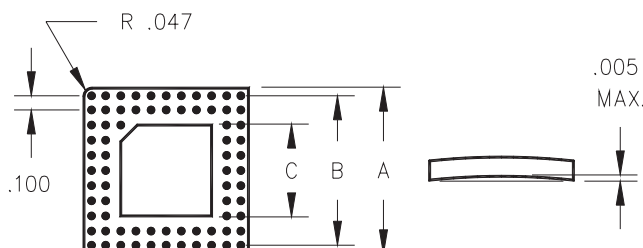
"Ultra lite" M-M#43 (03 suffix) typ. insertion force 12.5 grams
typ. extraction force 7.5 grams

-Mechanical life: 100 cycles min.

Electrical & Environmental Data

-See general specifications on page 4.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS A, B, and C can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

$$A = N1 \times .100"$$

$$B = (N1-1) \times .100"$$

$$C = (N2 \times .100") - .016"$$

TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

MATERIALS:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

MECHANICAL DATA:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

ELECTRICAL DATA:

- Rated current: SMD types: 1A
Thru-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5,000 MΩ min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

ENVIRONMENTAL DATA:

- Operating temperature: -55/+125 °C
- Vibration (No electrical discontinuity greater than 1μs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

MATERIALS:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

MECHANICAL DATA:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

ELECTRICAL DATA:

- Rated current: SMD types: 1A
Thru-hole types: 1A
- Contact resistance: 30 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

ENVIRONMENTAL DATA:

- Operating temperature: -55/+105 °C
- Vibration (No electrical discontinuity greater than 1μs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM

Initial value: 1,000,000 MΩ min.
After climatic tests: 10,000 MΩ min.

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 10μ" gold over 50μ" nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 10μ" gold over 100μ" nickel.
- Insulator material: .047" or .062" thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/°C, $\epsilon_r = 5.0$

Mechanical:

- Insertion and withdrawal forces (using .010" dia. polished steel gage pin): Insertion: .36N typ. per pin
Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: ≤.005"

Electrical:

- Current rating (per pin): 1 A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 VRMS:

- Dielectric withstanding voltage: 500 V_{RMS}
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

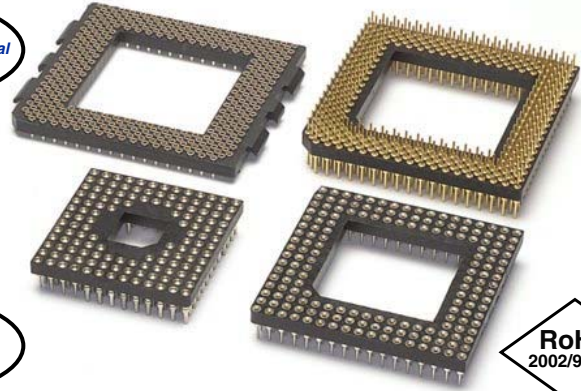
- Operating temperature range: -55 °C to +125 °C
- BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
 - Damp heat, cyclic: 25/55 °C, 6 days
 - Dry heat: 100°C, 1,000 hours
 - Thermal shock: -55 to +125 °C, 5 cycles
 - Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
 - Shock: 50 g per axis
 - Solderability: 235 °C, 2 seconds
 - Resistance to soldering heat: 270 °C, 10 seconds
 - Resistance to corrosion:
- Salt spray: 48 hours
- Sulphur dioxide: 96 hours @ 25 ppm SO₂, 25 °C, 75% rH
- Hydrogen sulphide: 96 hours @ 12 ppm H₂S, 25°C, 75% rH

- Series 510, 511, 514, 515, 522 & 523 PGA sockets are available on .100" centers.
- Series 513 and 518 PGA sockets are available for Interstitial patterns.
- Choice of three low force clips to cover all applications.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.

For RoHS compliance
select plating code.

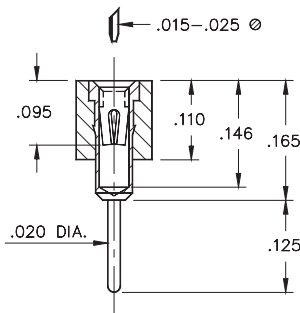
For Electrical,
Mechanical & Environmental
Data, See pg. 112

XX=Plating Code
See Below

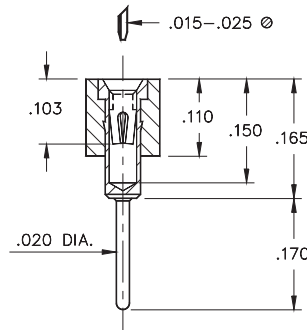


RoHS
2002/95/EC

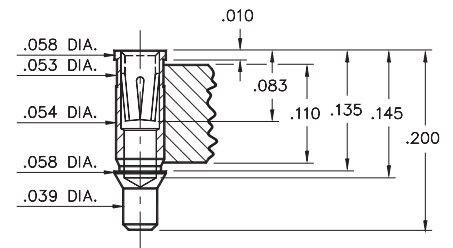
STANDARD SOLDER TAIL SERIES 510



LONG SOLDER TAIL SERIES 511

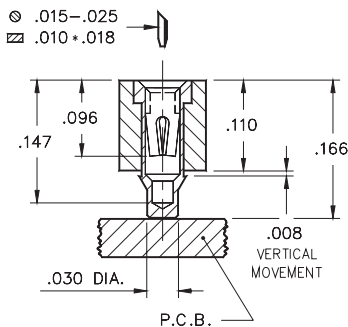


SMT RECEPTACLE SERIES 513

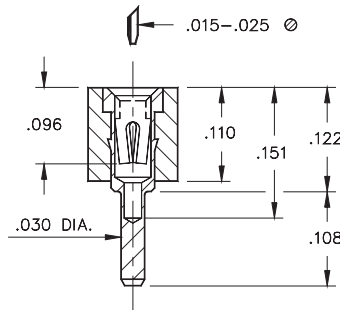


Interstitial Patterns Only

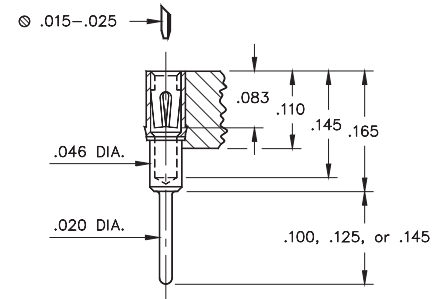
SMT RECEPTACLE SERIES 514



LOW PROFILE SOLDER TAIL SERIES 515

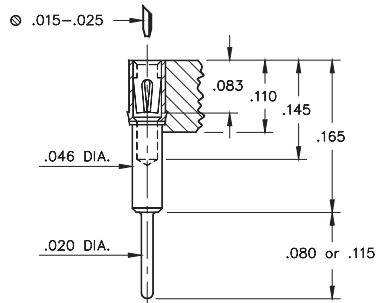


SOLDER TAIL (Without Heatsink Tabs) SERIES 518



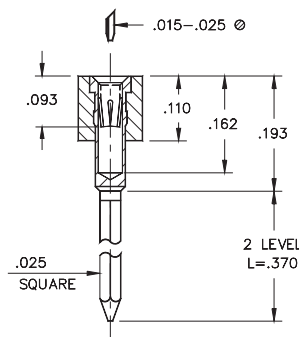
Interstitial Patterns Only

SOLDER TAIL (With Heatsink Tabs) SERIES 518

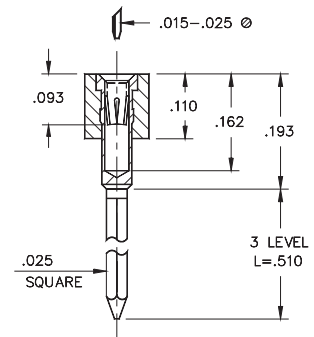


Interstitial Patterns Only

2 LEVEL WRAPOST SERIES 522



3 LEVEL WRAPOST SERIES 523



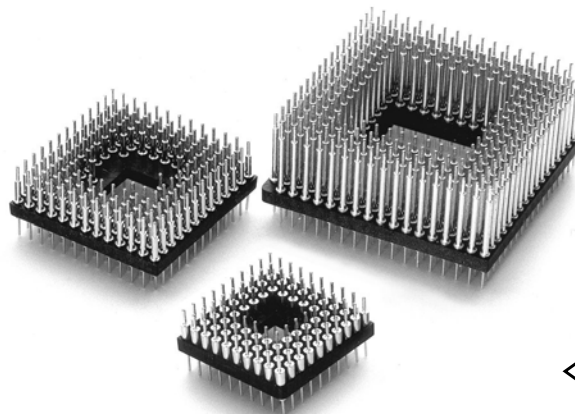
Visit www.mill-max.com/pgs
To configure a formal Part Number

SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	10µ" Au	200µ" Sn/Pb	200µ" Sn
Contact (Clip)	30µ" Au	30µ" Au	30µ" Au

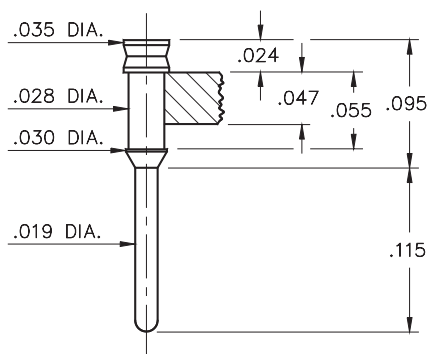
- Series 551 and 599 headers are available on .100" centers.

Series 507 & 550 PGA sockets are available for Interstitial patterns.

- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.

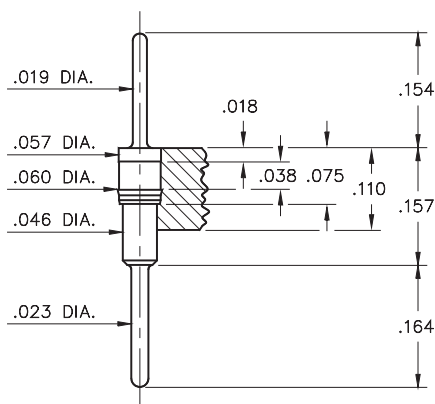


**SMT HEADER PIN TYPE 0737
SERIES 507**



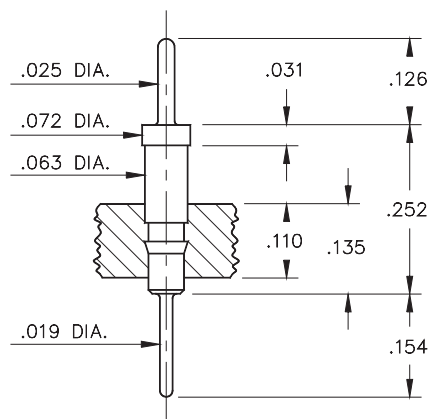
Interstitial Patterns Only

**HEADER PIN TYPE 5012
SERIES 550**

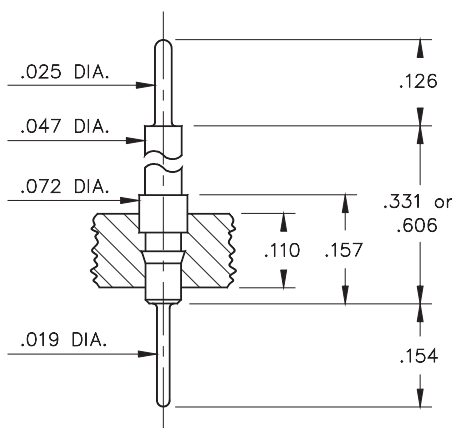


Interstitial Patterns Only

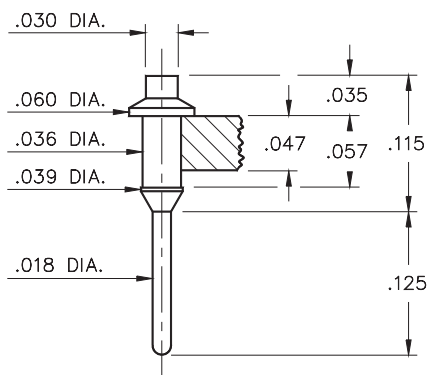
**HEADER PIN TYPE 5503
SERIES 551**



**HEADER PIN TYPE 5504 & 5505
SERIES 551**



**SMT HEADER PIN TYPE 9976
SERIES 599**



*For Electrical,
Mechanical & Environmental
Data, See pg. 112*

**XX=Plating Code
See Below**

**For RoHS compliance
select ◇ plating code.**

Visit www.mill-max.com/pgs
To configure a formal Part Number

SPECIFY PLATING CODE XX=

10◇

90

40◇

Pin Plating



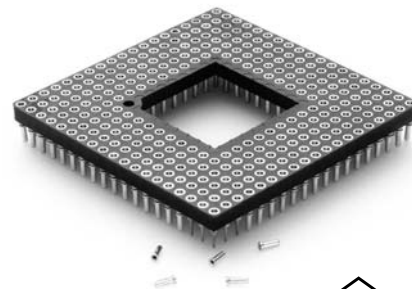
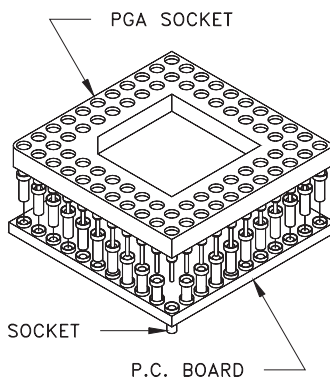
10μ" Au

200μ" Sn/Pb

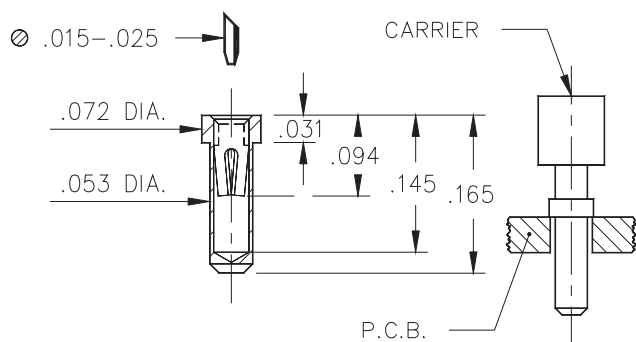
200μ" Sn

- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles.
- Many combinations of receptacles and clips to cover all applications.
- Hi-Temp PCT polyester insulator material suitable for all forms of soldering.
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board.

APPLICATION OF PGA SOCKET CARRIERS

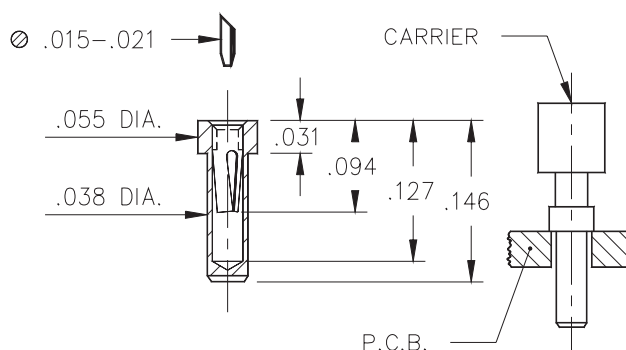


LOW PROFILE SOCKET SERIES 614...001, 002, 003

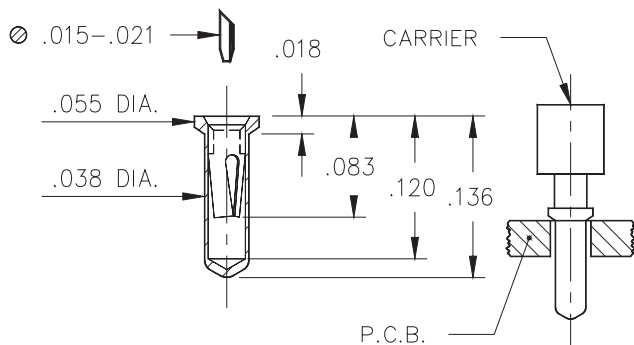


For .100" Grid Only

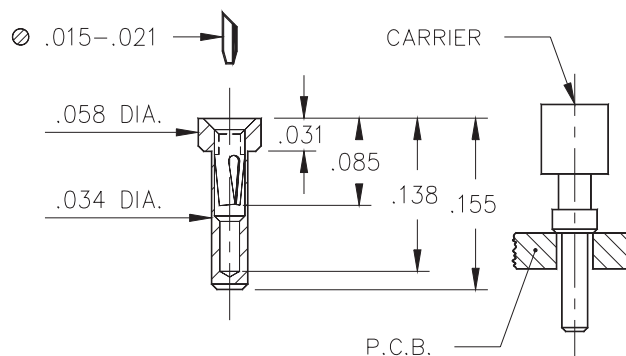
MINIATURE SOCKET SERIES 614...007



LOWEST PROFILE SOCKET SERIES 614...012



REDUCED BARREL SOCKET SERIES 605...048



For Electrical,
Mechanical & Environmental
Data, See pg. 112

XX=Plating Code
See Below

For RoHS compliance
select plating code.

Visit www.mill-max.com/pgacarrier
To configure a formal Part Number

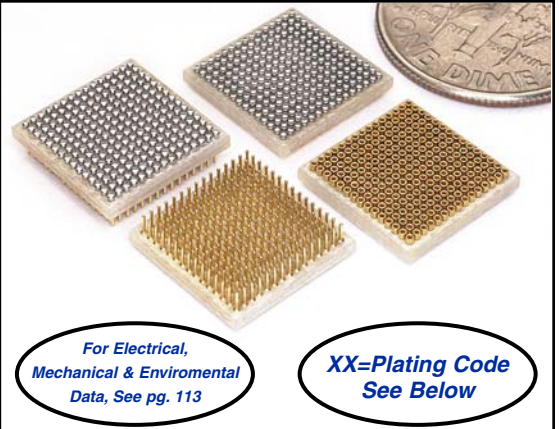
SPECIFY PLATING CODE XX=	13	93	43
Sleeve (Pin)	10μ" Au	200μ" Sn/Pb	200μ" Sn
Contact (Clip)	30μ" Au	30μ" Au	30μ" Au



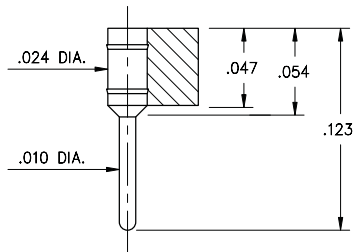
BALL GRID ARRAYS For 0,8mm Grid, 1mm Grid and .050" Grid Male Pin Adapters & Female Sockets

Series 540, 579, 582, 587, 599

- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect.
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9942 (0.8mm grid) or 9928 (1mm grid) surface mount socket.
- The BGA device for a .050" grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket.
- Both socket and adapter have the same footprint as the BGA device.
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500.
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board.

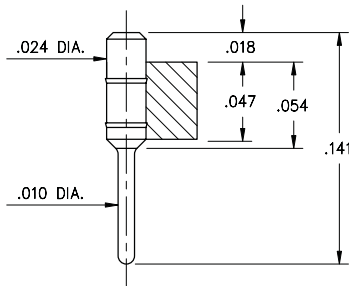


BGA MOUNT TYPE 9929 SERIES 599...429



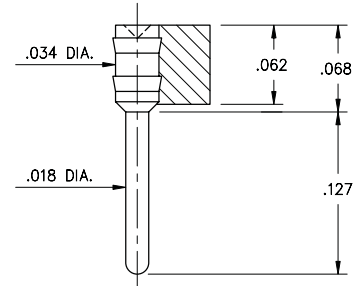
For 0,8mm & 1mm Grid Only

PCB MOUNT TYPE 7929 SERIES 579...429



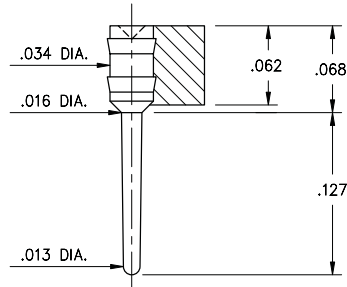
For 0,8mm & 1mm Grid Only

BGA MOUNT TYPE 8737 SERIES 587...437



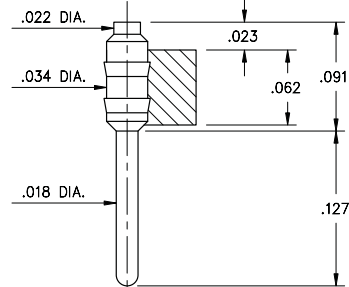
For .050" Grid Only

EZ-IN BGA MOUNT TYPE 4048 SERIES 540...448



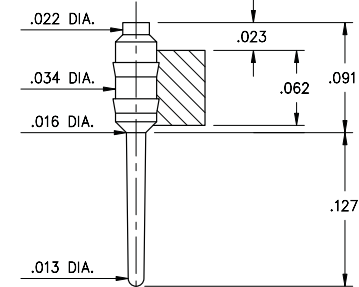
For .050" Grid Only

STANDARD PCB MOUNT TYPE 4098 SERIES 540...498



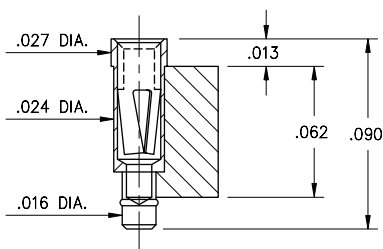
For .050" Grid Only

EZ-IN PCB MOUNT TYPE 4054 SERIES 540...454



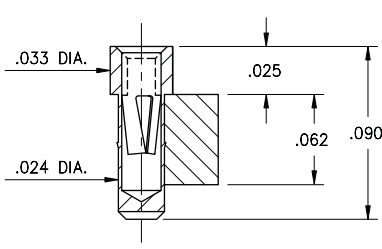
For .050" Grid Only

SURFACE MOUNT TYPE 9942 SERIES 599...442



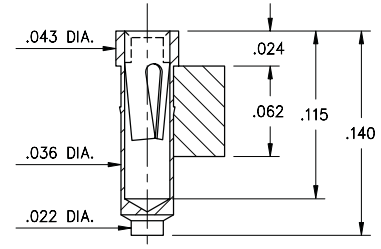
For 0,8mm Grid Only

SURFACE MOUNT TYPE 9928 SERIES 599...428



For 1mm Grid Only

SURFACE MOUNT TYPE 8214 SERIES 582...414



For .050" Grid Only

Visit www.mill-max.com/bga
To configure a formal Part Number

SPECIFY PLATING CODE XX=

11 ◇

PLATING CODE XX=

10 ◇

Sleeve (Receptacle)

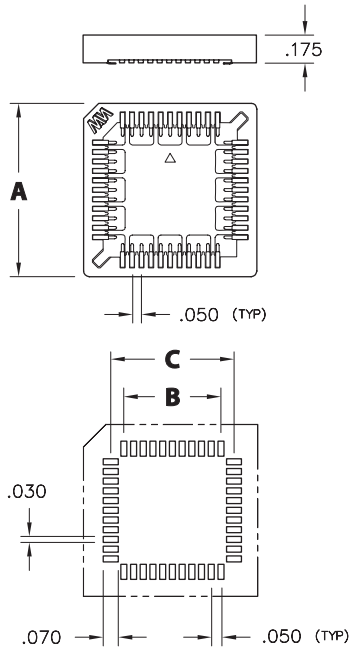
10μ" Au

Pin Plating

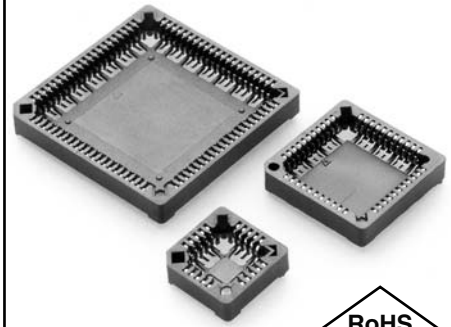
10μ" Au

Contact (Internal Clip)

10μ" Au

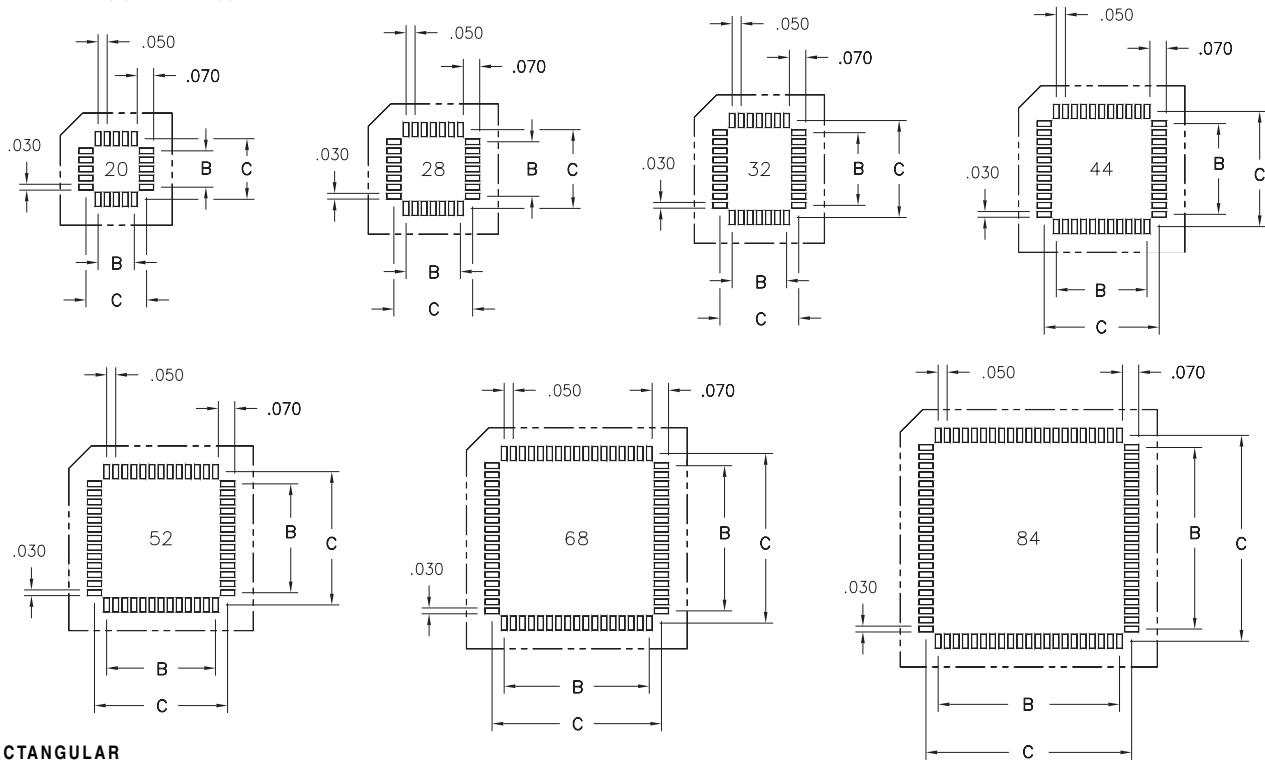


- Note: Not end stackable.
- Accepts JEDEC PLCCs MO-047 and MO-052.
- Low profile for high density PC board stacking.
- Standoffs provide clearance for heat dissipation and cleaning.
- Contacts are plated with 150 μ ” tin.
- Insulator material is glass reinforced PPS.



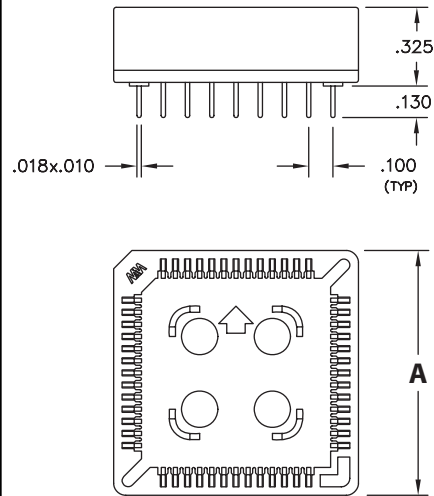
For Electrical,
Mechanical & Enviromental
Data, See pg. 113

PCB LAYOUT FOR SURFACE MOUNT

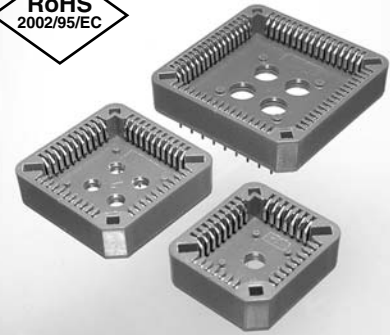


* RECTANGULAR

No. of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube Reel	
20	940-44-020-17-40000X	0.613	0.200	0.334	32	470
28	940-44-028-17-40000X	0.713	0.300	0.434	27	390
32*	940-44-032-17-40000X*	.813 / .713	.400 / .300	.534 / .434	24	390
44	940-44-044-17-40000X	0.900	0.500	0.634	21	250
52	940-44-052-17-40000X	1.013	0.600	0.734	19	250
68	940-44-068-17-40000X	1.213	0.800	0.934	16	220
84	940-44-084-17-40000X	1.413	1.000	1.134	14	200
Packaging Codes: X = 0 (Tubes) X = 4 (Tape & Reel)						



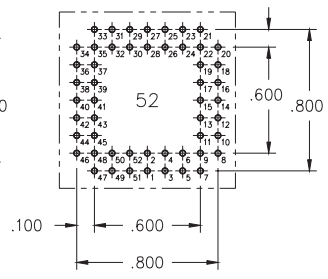
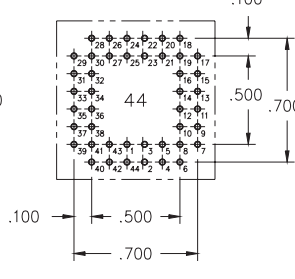
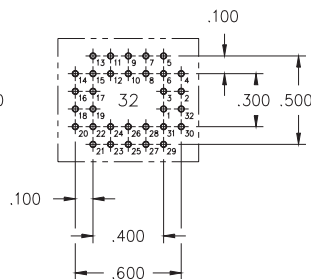
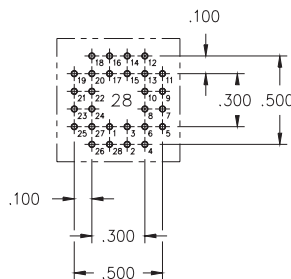
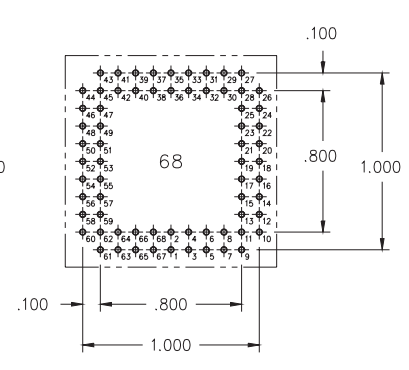
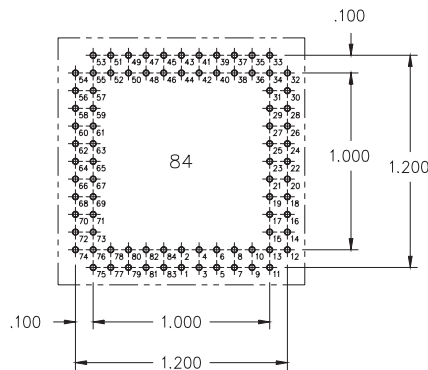
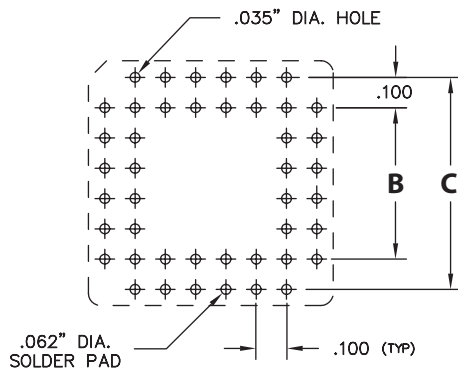
- Note: Not end stackable.
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates.
- Internal standoffs insure proper positioning of chip carrier in socket.
- Standoffs provide clearance for heat dissipation and cleaning.
- Contacts are plated with 150 μ " tin.
- Insulator material is glass reinforced PPS.



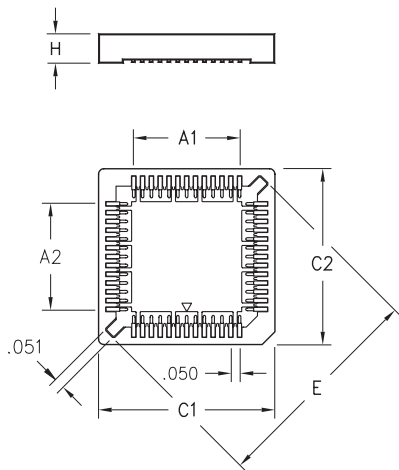
PRINTED CIRCUIT DRILLING PATTERNS (TOP VIEW)

.035" dia. min. mounting holes

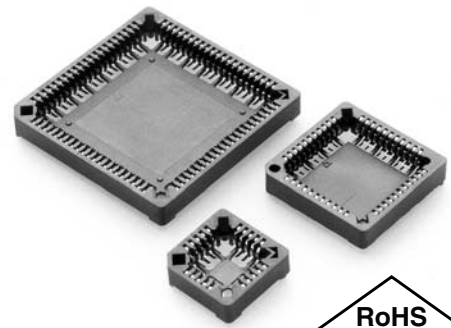
For Electrical,
Mechanical & Environmental
Data, See pg. 113



No. of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	0.613	0.200	0.400	38
28	940-44-028-24-000000	0.713	0.300	0.500	33
32*	940-44-032-24-000000*	.813 / .713	.400 / .300	.600 / .500	29
44	940-44-044-24-000000	0.913	0.500	0.700	26
52	940-44-052-24-000000	1.013	0.600	0.800	23
68	940-44-068-24-000000	1.213	0.800	1.000	19
84	940-44-084-24-000000	1.413	1.000	1.200	16
100	940-44-100-24-000000	1.603	1.200	1.400	25
Plating Code 44 $\diamond$ = 150 μ " Sn *RECTANGULAR					

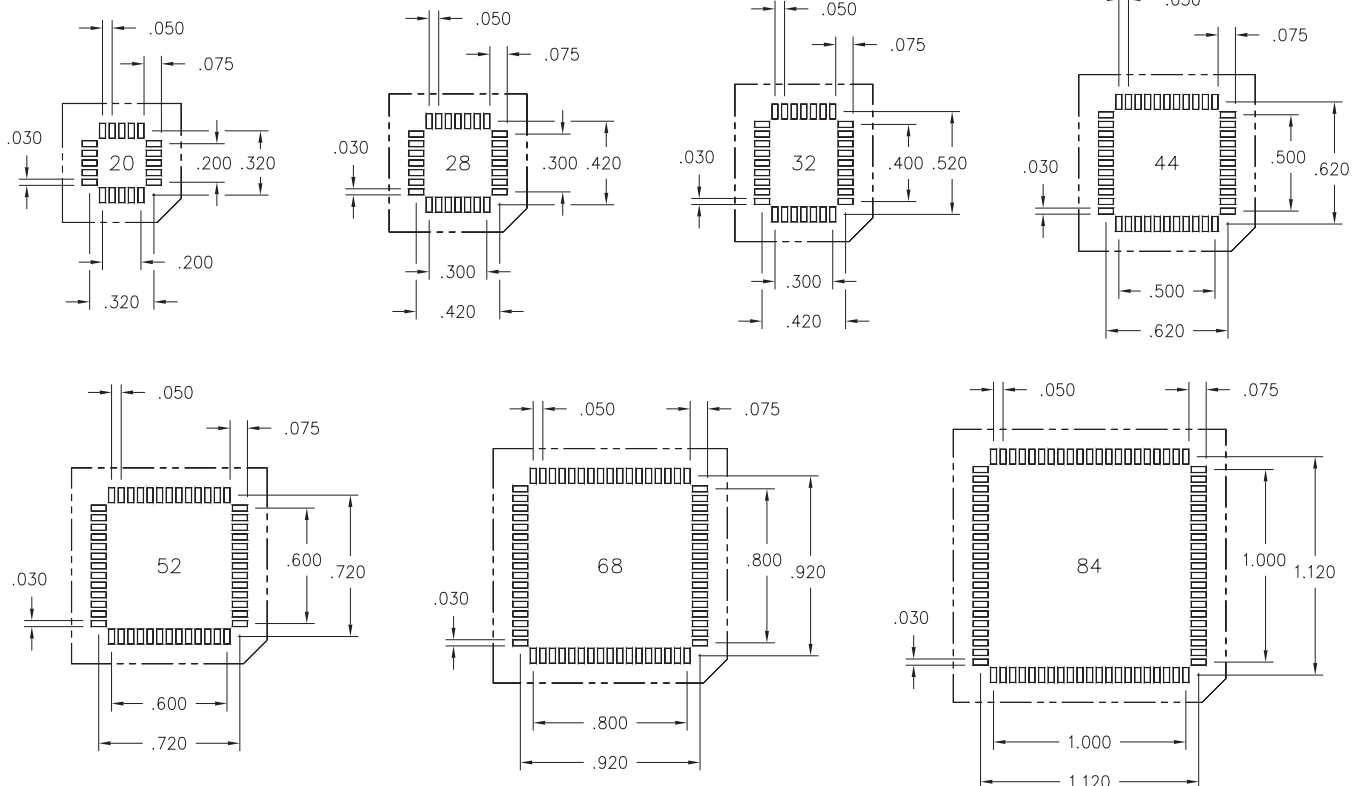


- Note: End stackable.
- Designed for JEDEC type devices.
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads.
- Contacts are plated with 150 μ tin.
- The insulator is molded PPS (Ryton R-4).



For Electrical,
Mechanical & Enviromental
Data, See pg. 113

PCB LAYOUT FOR SURFACE MOUNT



* RECTANGULAR

No. of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	0.200	0.200	0.585	0.585	0.657	0.180	34	24	490
28	540-44-028-17-40000X	0.300	0.300	0.685	0.685	0.799	0.180	29	32	400
32*	540-44-032-17-40000X*	0.300	0.400	0.670	0.770	0.885	0.148	26	32	400
44	540-44-044-17-40000X	0.500	0.500	0.885	0.885	1.082	0.180	22	44	250
52	540-44-052-17-40000X	0.600	0.600	1.000	1.000	1.224	0.180	20	44	250
68	540-44-068-17-40000X	0.800	0.800	1.202	1.202	1.507	0.180	16	44	220
84	540-44-084-17-40000X	1.000	1.000	1.400	1.400	1.791	0.180	14	56	200
Packaging Codes: X = 0 (Tubes) X = 4 (Tape & Reel)										

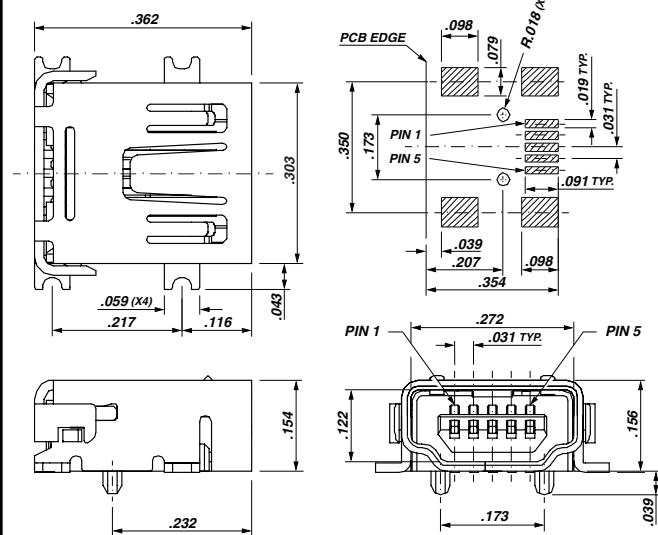


Fig. 1

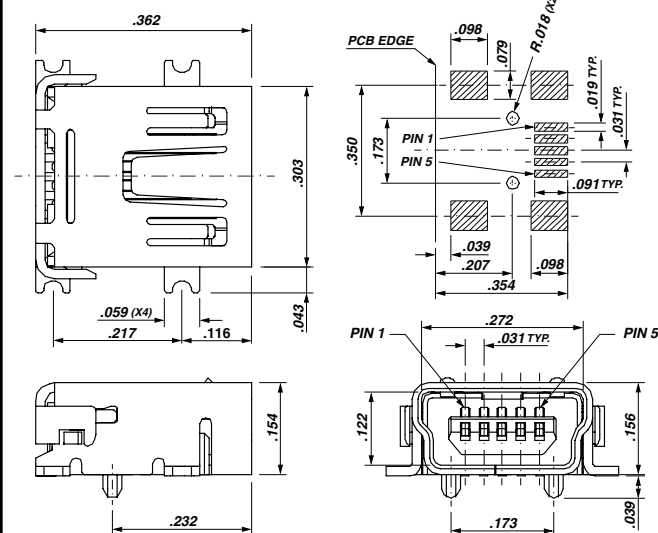
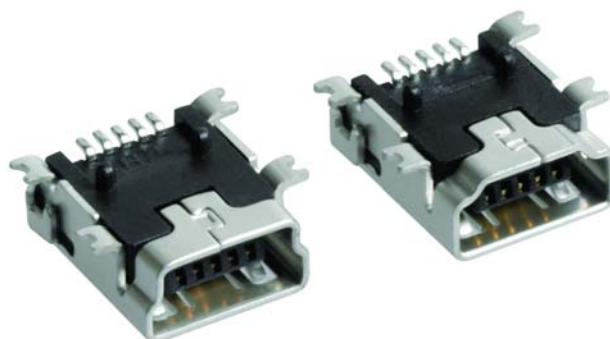


Fig. 2

Applications:

- **Cell phones**
- **Digital still cameras**
- **Digital video cameras**
- **PDAs**
- **MP3 Players**
- **Other portable and hand-held devices**



Features

- Mini USB receptacles for surface mount.
- 5 Pin (one ID Pin), 0.8mm pitch, mini USB connector.
- Reduced mounting space.
- Fully Shielded.
- Fully compliant with current USB 2.0 specifications.
- Smaller and lighter than existing USB connectors for portable and handheld devices.
- Packaged on Tape & Reel - 700 parts per reel.

Ordering Information:

Figure 1: Mini Type A Recep., Single, Surface Mount
896-43-005-00-100001

Figure 2: Mini Type B Recep., Single, Surface Mount
897-43-005-00-100001

Specifications

Materials:

Terminals: Copper Alloy, Tin Plated
Contacts: Copper Alloy, 30 μ " Gold Plated
Casing & Shield: Stainless Steel
Insulator material: High temp. thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260°C

Electrical:

Contact resistance: 50mΩ max.
Insulation resistance: 100MΩ min.
Dielectric withstanding voltage: 100VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity $>1\mu\text{s}$ per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity $>1\mu\text{s}$ per EIA 364-27, condition H
Durability: 5000 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: Initial - 7 Newtons min. per EIA 364-13
After test - 3 Newtons min. per EIA 364-13
Cable Pull-out force per EIA 364-38

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method III, condition A
Temperature life per EIA 364-17, condition 3, method A
Solderability per EIA 364-52, category 2

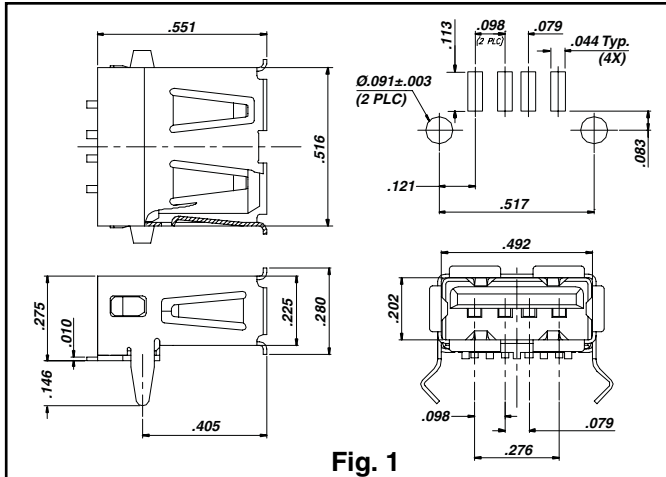


Fig. 1

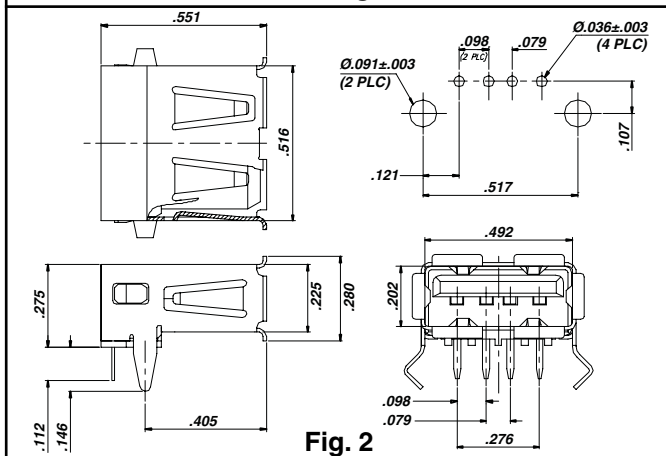


Fig. 2

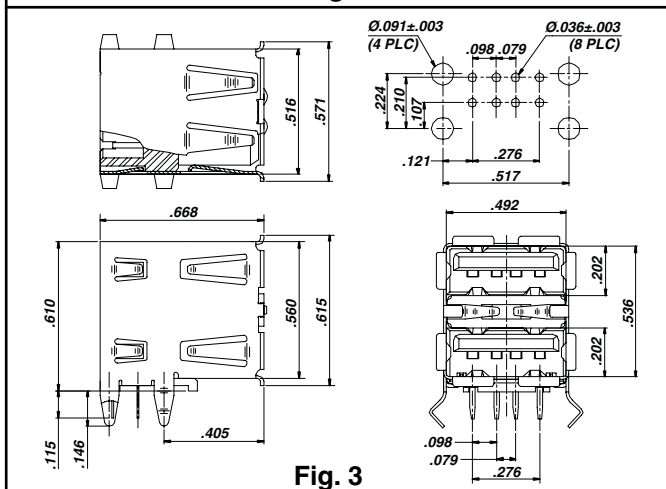


Fig. 3

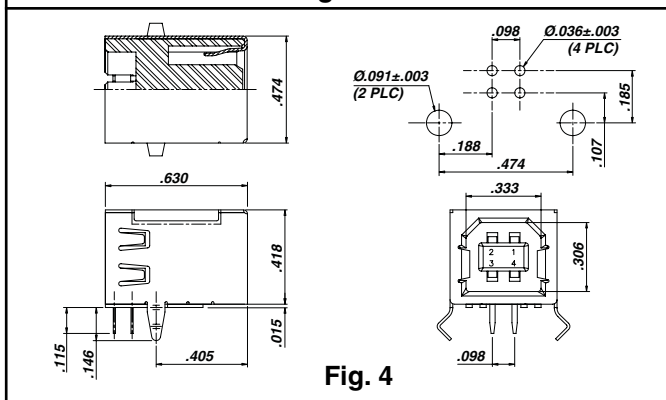


Fig. 4



Features

- USB receptacles for through-hole & surface mount.
- Plug retention tabs.
- Kinked locating legs for secure PCB retention.
- Fully Shielded.
- Fully compatible with USB 1.0 & 2.0 specifications.
- Passes 16MHz Signal Attenuation per ASTM-D-4566.
- Packaged in trays, 150 pieces per tray.

Ordering Information

Figure 1: Type A Receptacle, Single, Surface Mount
896-43-004-00-000000

Figure 2: Type A Receptacle, Single, Through Hole
896-43-004-90-000000

Figure 3: Type A Receptacle, Double, Through Hole
896-43-008-90-000000

Figure 4: Type B Receptacle, Single, Through Hole
897-43-004-90-000000

Specifications

Materials:

Terminals: Copper Alloy, Tin Plated
Contacts: Copper Alloy, 30 μ " Gold Plated
Casing & Shield: Stainless Steel
Insulator material: High temp. thermoplastic rated UL94V-0

Ratings:

Voltage: 30VAC (rms)
Current: 1A max. per contact for 30°C temperature rise
All housing materials rated for "lead-free" soldering up to 260°C

Electrical:

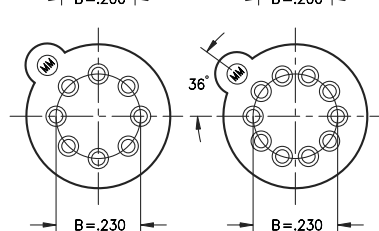
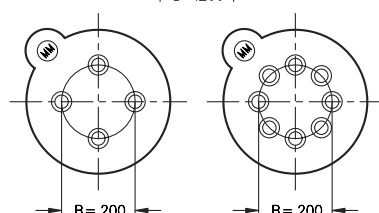
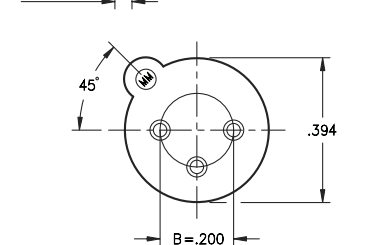
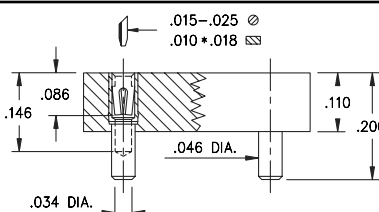
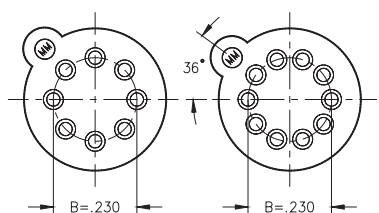
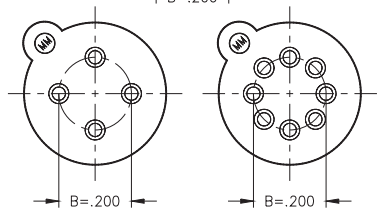
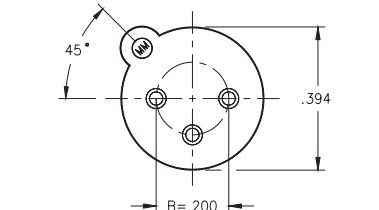
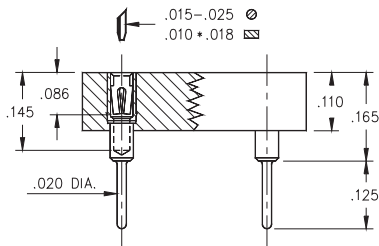
Contact resistance: 30m Ω max.
Insulation resistance: 1000M Ω min.
Dielectric withstanding voltage: 750VAC at sea level
Capacitance: 2pF max.

Mechanical:

Random vibration: No discontinuity >1 μ s per EIA 364-28, cond. V, letter A
Physical shock: No discontinuity >1 μ s per EIA 364-27, condition H
Durability: 1500 cycles min. per EIA 364-09
Mating force: 35 Newtons max. per EIA 364-13
Unmating force: 10 Newtons min. per EIA 364-13

Environmental:

Thermal shock per EIA 364-32, condition I
Humidity per EIA 364-31, method II, condition A
Temperature life per EIA 364-17, condition 3, method A



- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions.
- Two 8 pin versions feature pin centers on .200" or .230" circle.
- Series 917_005 use MM #1802 pins, see page 140 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 218 for details.
- Series 917_001 use MM #1701 pins, see page 140 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 218 for details.
- Insulators are high temp. thermoplastic.



Ordering Information

Transistor Sockets (Through-Hole Mount)

Type	Circle Dia.	No. of Pins	Ordering Information
TO-5	0.200	3	917-XX-103-41-005000
TO-5	0.200	4	917-XX-104-41-005000
TO-5	0.200	8	917-XX-108-41-005000
TO-100	0.230	8	917-XX-208-41-005000
TO-100	0.230	10	917-XX-210-41-005000

Transistor Sockets (Surface Mount)

Type	Circle Dia.	No. of Pins	Ordering Information
TO-5	0.200	3	917-43-103-41-001000
TO-5	0.200	4	917-43-104-41-001000
TO-5	0.200	8	917-43-108-41-001000
TO-100	0.230	8	917-43-208-41-001000
TO-100	0.230	10	917-43-210-41-001000

For Electrical, Mechanical & Environmental Data, See pg. 4

XX=Plating Code See Below

For RoHS compliance select plating code.

SPECIFY PLATING CODE XX=			93			43	
Sleeve (Pin)			200µ" Sn/Pb			200µ" Sn	
Contact (Clip)			30 µ" Au			30 µ" Au	

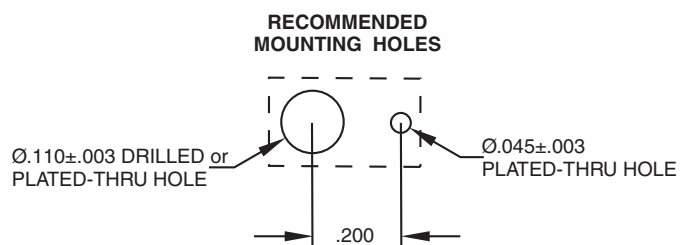
- Available to accept 3 pin sizes: 1, 1.5, & 2mm.
- Uses Hi-Temp PCT polyester insulator.
- Standard Insulator color is black.

RoHS
2002/95/EC

Pin Size	Ordering Information
1.0mm	395-XX-101-34-34X000
1.5mm	395-XX-101-03-38X000
2.0mm	395-XX-101-07-35X000

Insulator Color Options

X= 0 - Black



*For Electrical,
Mechanical & Enviromental
Data, See pg. 4*

XX=Plating Code
See Below

*For RoHS compliance
select ◇ plating code.*

SPECIFY PLATING CODE XX=	13◇		93				
Sleeve (Pin)	10μ" Au		200μ" Sn/Pb				
Contact (Clip)	30μ" Au		30μ" Au				

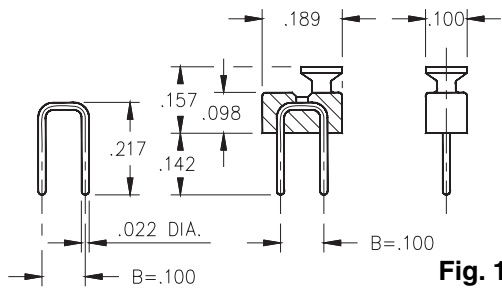


Fig. 1

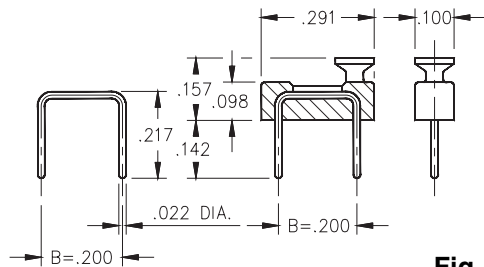


Fig. 2

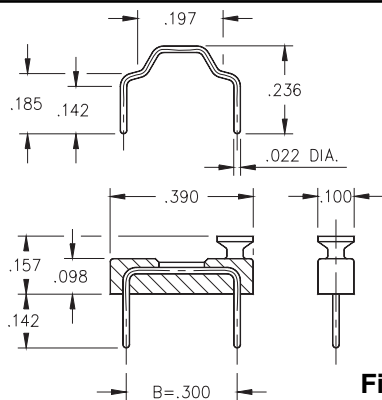
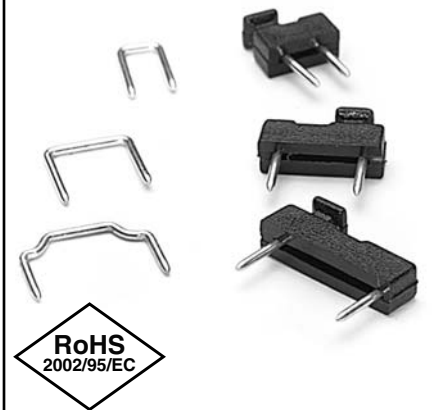


Fig. 3

- Male shorting jumpers are available with or without insulator and have .022" diameter pins with .100", .200" or .300" center spacing.
- Insulator materials are not high temperature.

*For Electrical,
Mechanical & Environmental
Data, See pg. 4*



Ordering Information

Fig. 1

Male Shorting Jumper .100" Spacing

Color / Style

Plating 10μ" Au

Black

999-11-210-10-000000

Not Insulated

999-11-110-10-000000

Fig. 2

Male Shorting Jumper .200" Spacing

Color / Style

Plating 10μ" Au

Black

999-11-220-10-000000

Not Insulated

999-11-112-10-000000

Fig. 3

Male Shorting Jumper .300" Spacing

Color / Style

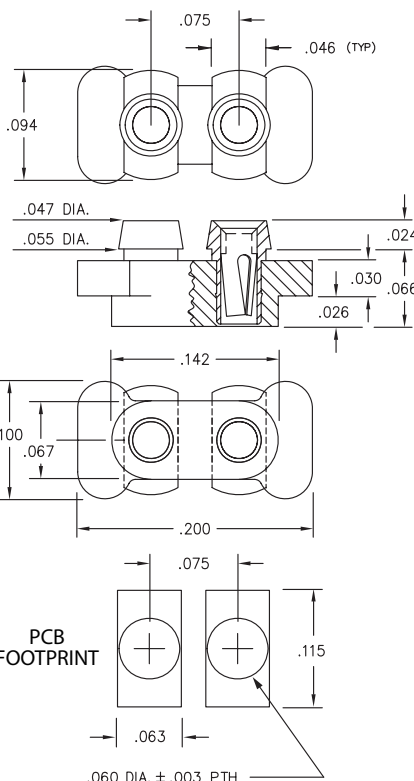
Plating 10μ" Au

Black

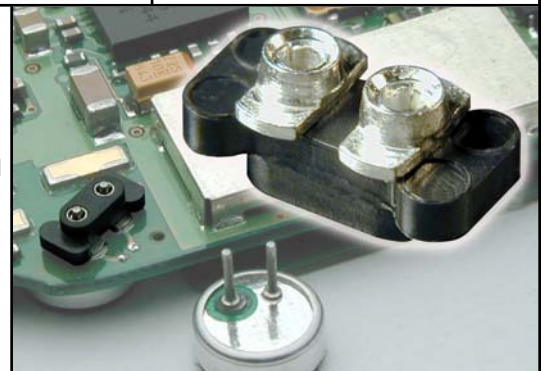
999-11-230-10-000000

Not Insulated

999-11-113-10-000000



- Series 388 microphone socket is a bottom entry socket for microphones having Ø.018" pins on .075" centers.
- Designed to be surface mount and intrusive reflow soldered.
- Insulator is high temp. Nylon 46, rated UL 94 V-0.
- Series 388 use MM #8874 pins. See page 130 for details.



Microphone Socket

Ordering Information

388-XX-102-11-740800 (Discrete socket)

Plating Code

388-XX-102-11-740799

(Supplied on 12mm wide carrier tape per EIA-481: 6,500 per 13" reel)

*XX=Plating Code
See Below*

SPECIFY PLATING CODE XX=				99			44
Sleeve (Pin)				200μ" Sn/Pb			200μ" Sn
Contact (Clip)				200μ" Sn/Pb			200μ" Sn

THE BASIC RECEPTACLE

The basic conducting element used in printed circuit board (PCB) connections is the pin receptacle. The Mill-Max pin receptacle is typically used to make devices on the PC board pluggable while maintaining a low profile, or as the contact in a cable assembly. The machined shell or housing of pin receptacles is available in various styles depending on the application. The terminal end of pin receptacles has many variations: a round solder tail, a press-fit tail, a surface mount tail, crimp tail, solder-cup tail, swage tail or no tail.

Inside every Mill-Max receptacle is a contact clip. A contact clip is a conductive, multi-finger, progressive-die stamping that engages, scores and holds the mated pin, making an electrical and gas-tight connection at 3, 4 or 6 points of contact (depending upon the selected contact).

Mill-Max currently offers 34 styles of contacts to engage pins from .008" to .102" in diameter. A convenient contact selector chart is located on page 214 showing the different specifications of each contact.



Pin receptacles can be utilized as discrete connectors for the plugging and unplugging of components on pc boards. They can be utilized individually or in random arrays where the usage is small. They can be handled and loaded manually in preparation for soldering or, with a different style shell, for press-fitting. When a customer requires volume placement of Mill-Max receptacles, socket carriers or tape and reel packaging are tremendous labor-saving solutions for our customer.

In addition to the products found on the following pages, Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: .062/.072/.078/.093/.125/.156/.187/.250 diameters

BRASS Alloy 360, 1/4 hard: .072/.078 diameters

BRASS TUBING: .072 O.D.x.020 I.D./ .072 O.D.x.025 I.D.

PHOSPHOR BRONZE Alloy 544 .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145 .079/.093/.125/.156 diameters

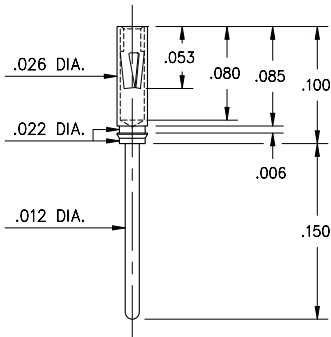
Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 213 or send us your own drawings. We assure you of a fast response.



PIN RECEPTACLES
for .008" - .013" diameter pins (#04 contact)
and .012" - .017" diameter pins (#10 contact)
(see specific contact range on page 216)

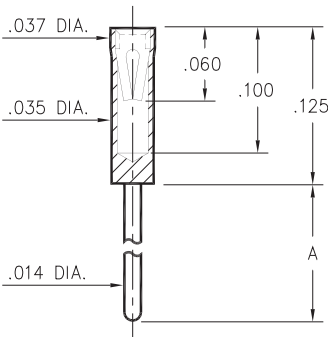


8210



8210-0-15-15-04-27-04-0
Press-fit in .024/.027 stepped hole

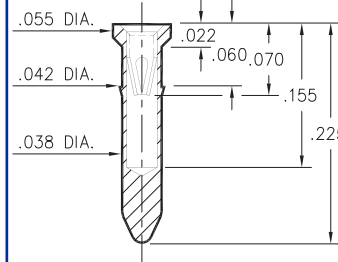
0464



Basic Part Number	Length A
0464-0	.125
0464-1	.250

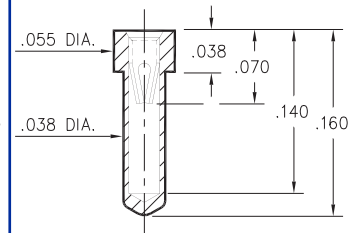
0464-X-15-XX-10-XX-04-0
Solder mount in .016 min. mounting hole

9225



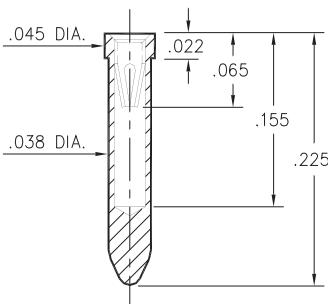
9225-0-15-XX-10-XX-10-0
Press-fit in .039 mounting hole

0529



0529-0-15-XX-10-XX-10-0
.040 min. mounting hole

8947



8947-0-15-XX-10-XX-10-0
Solder mount in .040 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - XX - XX - XX - 0

BASIC PART # _____

SPECIFY SHELL FINISH: _____

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)

SPECIFY CONTACT FINISH: _____

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

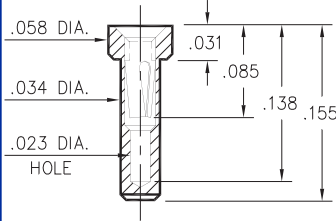
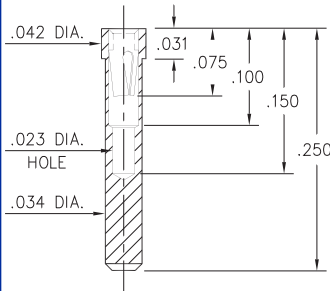
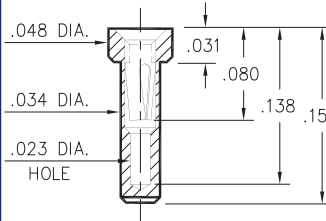
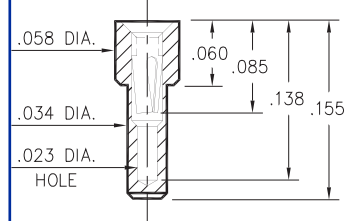
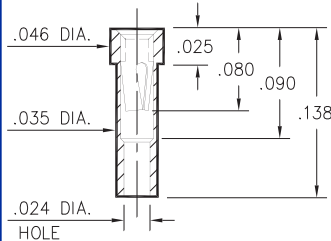
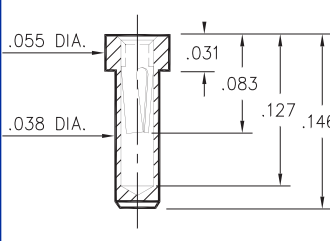
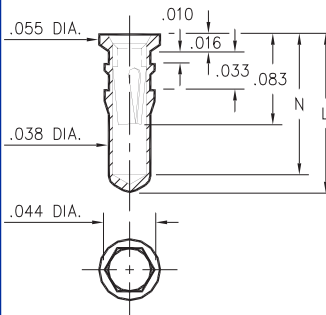
SELECT CONTACT

#04 or #10 CONTACT (DATA ON PAGE 216)
(CONTACTS #04 & #10 NOT INTERCHANGEABLE)

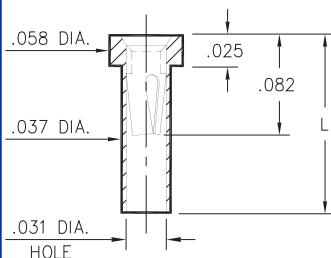




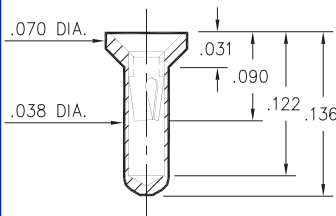
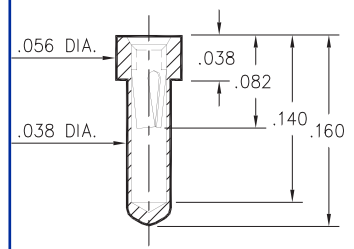
PIN RECEPTACLES
for .015" - .020" diameter pins (#11 contact)
and .015" - .022" diameter pins (#21 contact)
(see specific contact range on page 217)

**0548****0548-0-15-XX-21-XX-10-0**Solder mount in .036 min.
mounting hole**8975****8975-0-15-XX-21-XX-10-0**Solder mount in .036 min.
mounting hole**3016****3016-0-15-XX-21-XX-10-0**Solder mount in .036 min.
mounting hole**9548****9548-0-15-XX-21-XX-10-0**Solder mount in .036 min.
mounting hole**8637****8637-0-15-XX-21-XX-10-0**Solder mount in .037 min.
mounting hole**1407****1407-0-15-XX-11-XX-10-0**Solder mount in .040 min.
mounting hole**0553/8553****X553-X-15-XX-X1-XX-10-0**Hex press-fit in .041 plated
thru hole

Basic Part Number	Length L	Depth N
0553-1	.140	.124
0553-2	.170	.154
0553-3	.282	.266
8553-0	.245	.229

0566**0566-X-15-XX-21-XX-10-0**Solder mount in .039 min.
mounting hole

Basic Part Number	Length L
0566-1	.083
0566-2	.138

0442**0442-0-15-XX-11-XX-10-0**Solder mount in .040 min.
mounting hole**0554****0554-0-15-XX-21-XX-10-0**Solder mount in .040 min.
mounting hole**SPECIFICATIONS****SHELL MATERIAL:**
Brass Alloy 360, 1/2 Hard**CONTACT MATERIAL:**
Beryllium Copper Alloy 172, HT**DIMENSION IN INCHES**
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°**ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0****BASIC PART #****SPECIFY SHELL FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)

**SPECIFY CONTACT FINISH:**

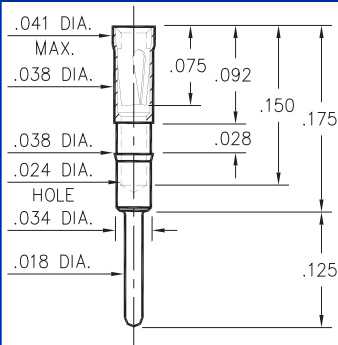
- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

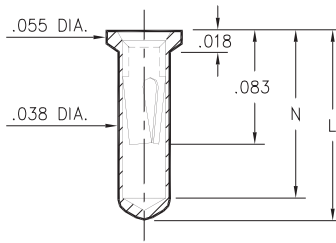
#11 or #21 CONTACT (DATA ON PAGE 217)



PIN RECEPTACLES
 for .015" - .018" diameter pins (#09 contact)
 for .015" - .020" diameter pins (#11 contact)
 and .015" - .022" diameter pins (#21 contact)
 (see specific contact range on pages 216 & 217)

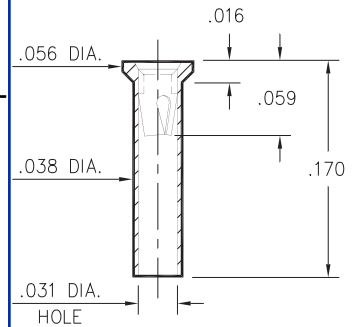
**0467**

0467-0-15-XX-21-XX-04-0
 Press-fit in .037 mounting hole

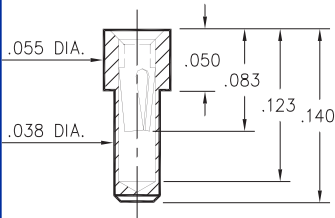
0552

0552-X-15-XX-X1-XX-10-0
 Solder mount in .040 min. mounting hole
 Also available on 16mm wide carrier
 tape: 1,500 parts per 13" reel.
 Order as: 0552-X-57-XX-X1-XX-10-0

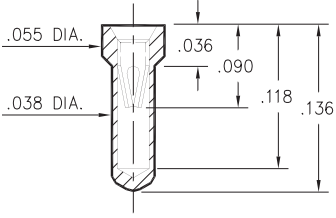
Basic Part Number	Length L	Depth N
0552-1	.136	.120
0552-2	.170	.150

5522

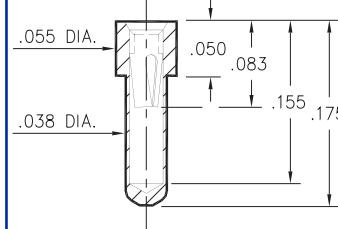
5522-0-15-XX-09-XX-10-0
 Solder mount in .040 min. mounting hole

0569

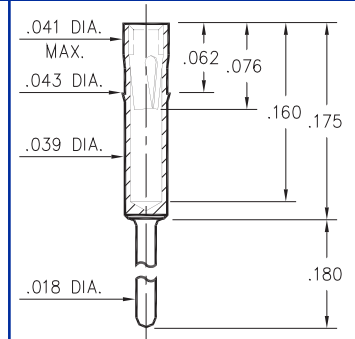
0569-0-15-XX-X1-XX-10-0
 Solder mount in .040 min mounting hole

6023

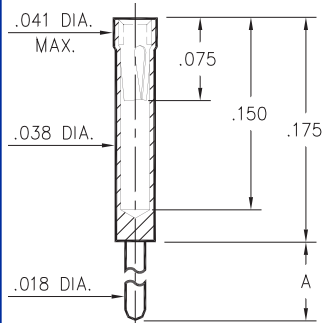
6023-0-15-XX-21-XX-10-0
 Solder mount in .040 min mounting hole

6214

6214-0-15-XX-21-XX-10-0
 Solder mount in .040 min mounting hole

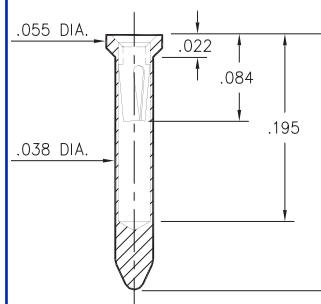
2086

2086-0-15-XX-21-XX-04-0
 Press-fit in .040 mounting hole

0461

0461-X-15-XX-X1-XX-04-0
 Solder mount in .020 min. mounting hole

Basic Part Number	Length A
0461-0	.400
0461-1	.275
0461-2	.180
0461-3	.125
0461-4	.060
0461-5	.440

8579

8579-0-15-XX-X1-XX-10-0
 Solder mount in .040 min mounting hole

Basic Part Number	Length L
8579-0	.234
8579-1	.295

SPECIFICATIONS

SHELL MATERIAL:
 Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
 Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: ±.005
 DIAMETERS: ±.002
 ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART # →

SPECIFY SHELL FINISH: →

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH: →

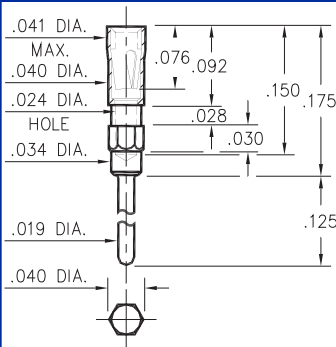
- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT →

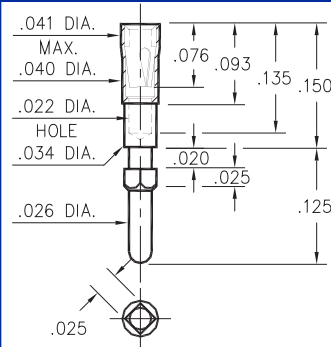
#09, #11 or #21 CONTACT (DATA ON PAGE 217)



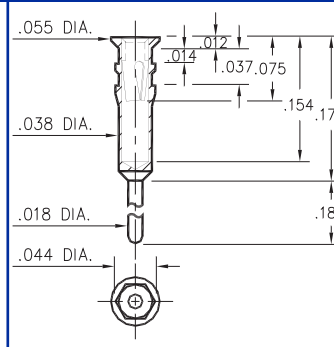
PIN RECEPTACLES
for .015" - .020" diameter pins (#11 contact)
and .015" - .022" diameter pins (#21 contact)
(see specific contact range on page 217)

**8467**

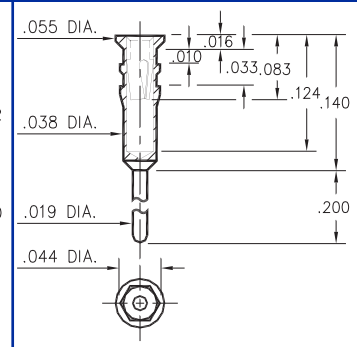
8467-0-15-XX-21-XX-04-0
Hex press-fit in .036 plated thru hole

6192

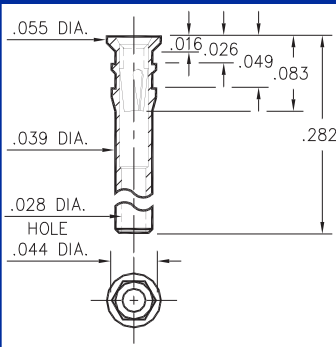
6192-0-15-XX-21-XX-04-0
Square press-fit in .032 plated thru hole

9553

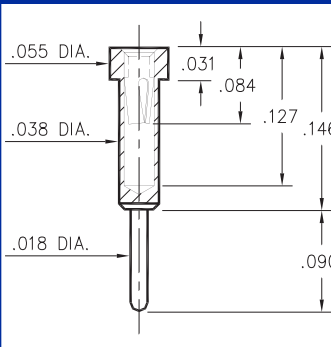
9553-0-15-XX-X1-XX-04-0
Hex press-fit in .041 plated thru hole

5531

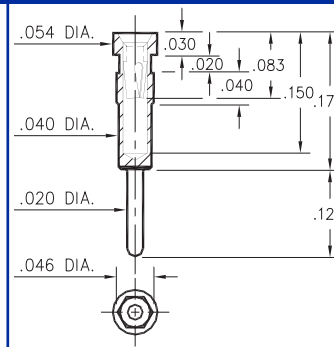
5531-0-15-XX-21-XX-10-0
Hex press-fit in .041 plated thru hole

7553

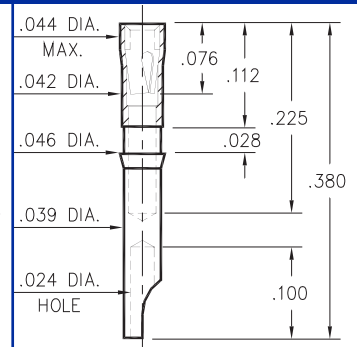
7553-0-15-XX-11-XX-10-0
Hex press-fit in .041 plated thru hole

9407

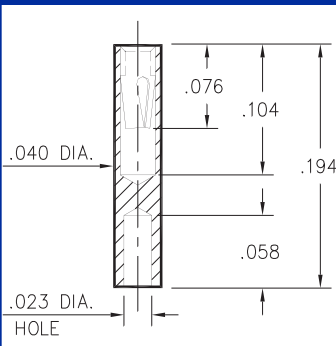
9407-0-15-XX-11-XX-10-0
Solder mount in .040 min. mounting hole

9462

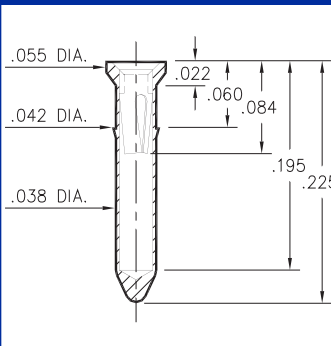
9462-0-15-XX-21-XX-04-0
Hex press-fit in .043 plated thru hole

1147

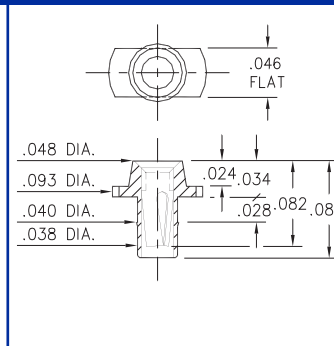
1147-0-18-XX-21-XX-10-0
Press-fit in .043 min. mounting hole

3061

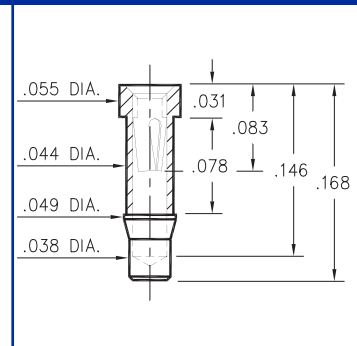
3061-0-19-XX-21-XX-10-0
Wire Termination

0579

0579-0-15-XX-X1-XX-10-0
Press-fit in .040 mounting hole

8874

8874-0-15-XX-11-XX-10-0
Bottom entry Surface mount

0613

0613-0-15-XX-21-XX-10-0
Press-fit in .047 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0**BASIC PART #****SPECIFY SHELL FINISH:**

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)

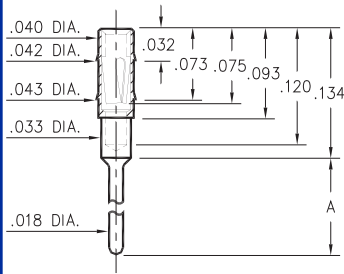
**SPECIFY CONTACT FINISH:**

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT**#11 or #21 CONTACT (DATA ON PAGE 217)**

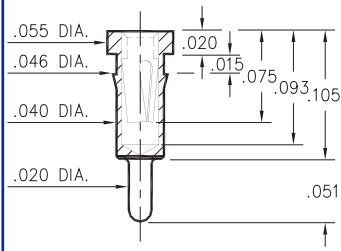


PIN RECEPTACLES
for .015" - .020" diameter pins (#11 contact)
and .015" - .022" diameter pins (#05 & #21 contacts)
(see specific contact range on page 217)

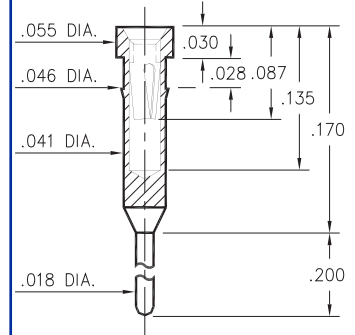
**0489**

Basic Part Number	Length A
0489-0	.102
0489-1	.199
0489-2	.299

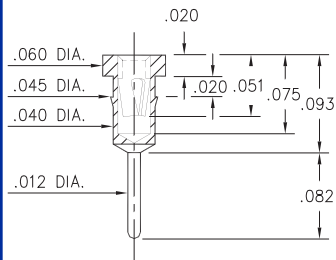
0489-X-15-XX-11-XX-04-0
Press-fit in .041 mounting hole.

0463

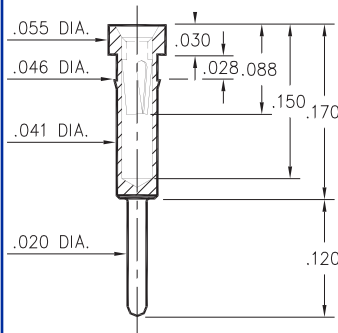
0463-0-15-XX-21-XX-04-0
Press-fit in .043 mounting hole.
shell is Phos. Br. Alloy 544 (B2)

0466

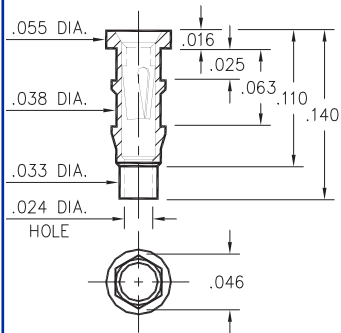
0466-0-15-XX-21-XX-04-0
Press-fit in .043 mounting hole.
shell is Phos. Br. Alloy 544 (B2)

7491

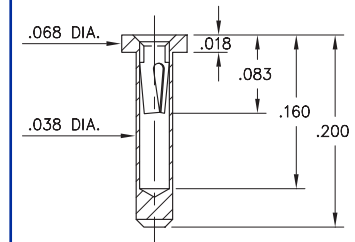
7491-0-15-XX-X1-XX-04-0
Press-fit in .042 mounting hole

0462

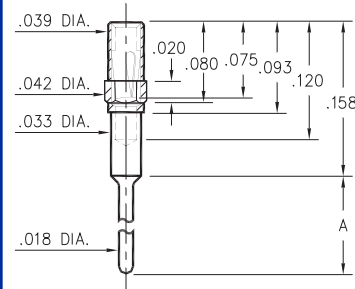
0462-0-15-XX-X1-XX-04-0
Press-fit in .043 mounting hole

0560

0560-0-15-XX-11-XX-10-0
Hex press-fit in .043 plated thru hole

5552

5552-0-15-XX-05-XX-10-0
Solder mount in .040 min. mounting hole

4890

Basic Part Number	Length A
4890-0	.102
4890-1	.199
4890-2	.299

4890-X-15-XX-11-XX-04-0
Octagonal press-fit in .041 mounting hole.

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART # →

SPECIFY SHELL FINISH: →

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



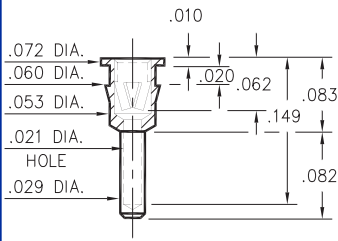
SPECIFY CONTACT FINISH: →

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT →

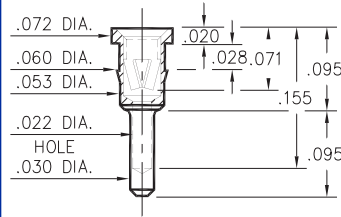
#05, #11 or #21 CONTACT (DATA ON PAGE 217)

0512



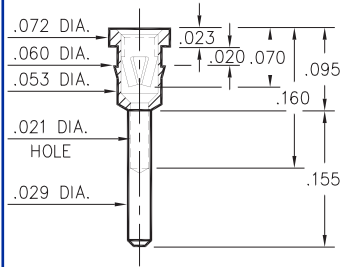
0512-0-15-XX-12-XX-04-0
Press-fit in .057 mounting hole

0703



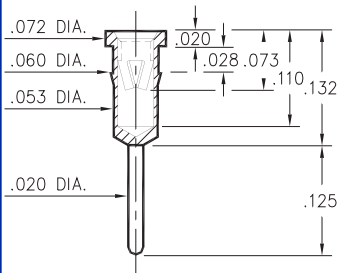
0703-0-15-XX-12-XX-04-0
Press-fit in .057 mounting hole

0574



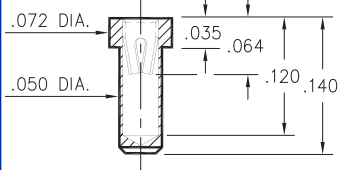
0574-0-15-XX-12-XX-04-0
Press-fit in .057 mounting hole

0468



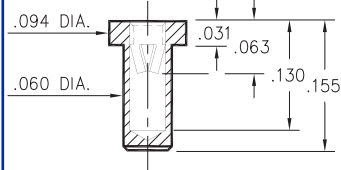
0468-0-15-XX-12-XX-04-0
Press-fit in .057 mounting hole

0550



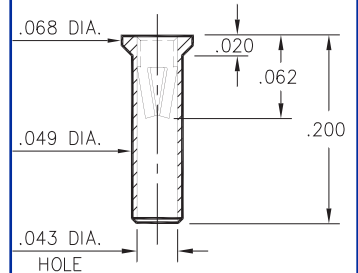
0550-0-15-XX-22-XX-10-0
Solder mount in .052 min. mounting hole

0671



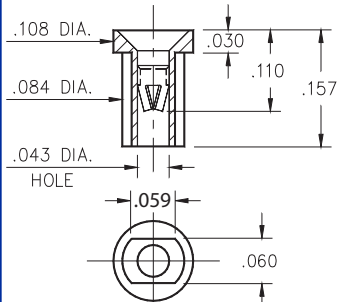
0671-0-15-XX-12-XX-10-0
Solder mount in .063 min. mounting hole

0707



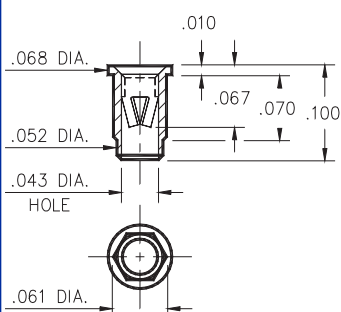
0707-0-15-XX-12-XX-10-0
Solder mount in .051 min. mounting hole

5739



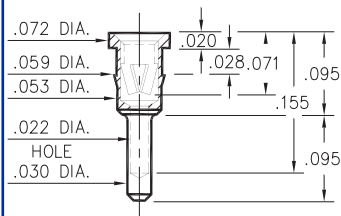
5739-0-18-XX-12-XX-10-0
Surface mount
Also available on 16mm wide carrier tape: 3,000 parts per 13" reel.
Order as: 5739-0-58-XX-12-XX-10-0

8894



8894-0-15-XX-12-XX-10-0
Hex press-fit in .059 plated thru hole

1534



1534-0-15-XX-12-XX-04-0
Press-fit in .056 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



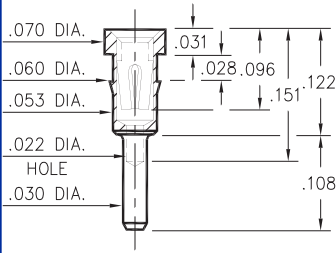
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

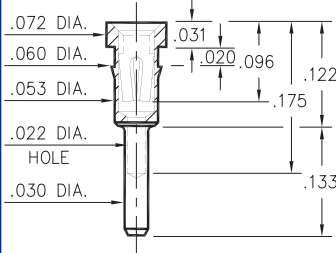
#12 or #22 CONTACT (DATA ON PAGE 218)

0501



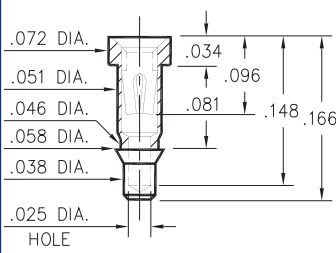
0501-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

8427



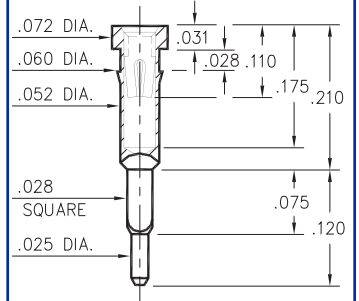
8427-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

1434



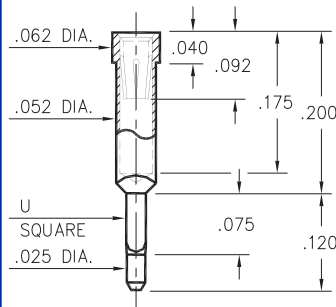
1434-0-15-XX-30-XX-10-0
Press-fit in .055 mounting hole

9970



9970-0-15-XX-30-XX-04-0
Square press-fit for .032 ±.002 plated thru hole

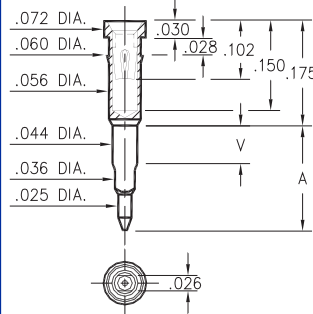
5970



5970-X-15-XX-32-XX-04-0
Square press-fit for .032 or .039 ±.002 plated thru hole

Basic Part Number	U Square	Mounting Hole
5970-1	.028	.032
5970-2	.034	.039

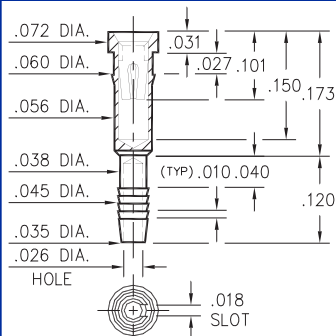
0477/0478



047X-0-18-XX-30-XX-04-0
Solderless press-fit in .038 +.003 / -.002 plated thru hole (use 1.1mm drill prior to plating)

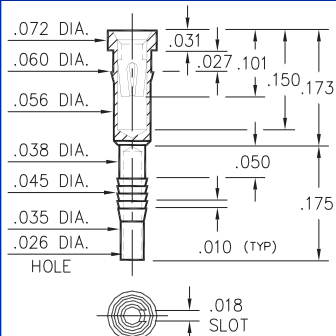
Basic Part Number	Board Thickness	Length V	Length A
0477-0	.062	.075	.175
0478-0	.125	.140	.250

4612



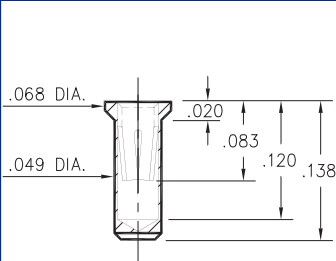
4612-0-31-XX-30-XX-04-0
Compliant press-fit in .040 ±.003 plated hole. For .060 → .100 thick board

4613



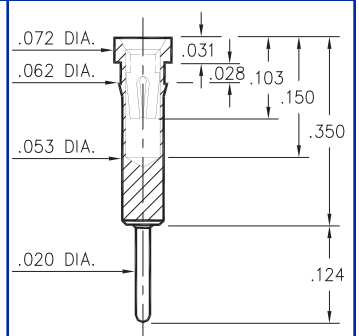
4613-0-31-XX-30-XX-04-0
Compliant press-fit in .040 ±.003 plated hole. For .090 → .130 thick board

0680



0680-0-15-XX-32-XX-10-0
Solder mount in .051 min. mounting hole

0149



0149-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



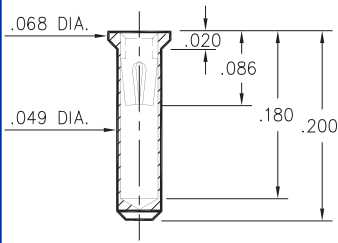
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

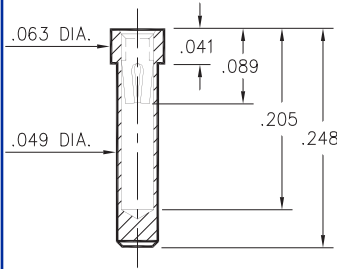
0660



0660-0-15-XX-30-XX-10-0

Solder mount in .051 min. mounting hole

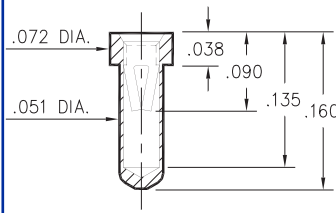
0677



0677-0-15-XX-30-XX-10-0

Solder mount in .051 min. mounting hole

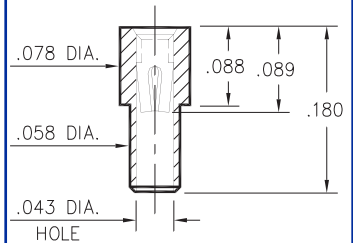
0555



0555-0-15-XX-20-XX-10-0

Solder mount in .053 min. mounting hole

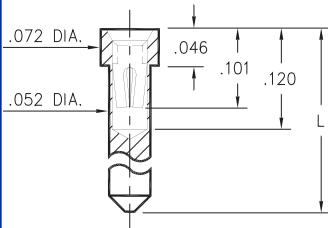
0558



0558-0-15-XX-30-XX-10-0

Solder mount in .061 min. mounting hole

0675/0679

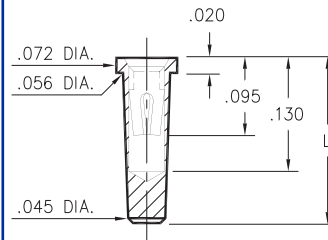


Basic Part Number	Length L
0675-0	.145
0679-0	.203

067X-0-15-XX-30-XX-10-0

Solder mount in .054 min. mounting hole

1065/1066/7065

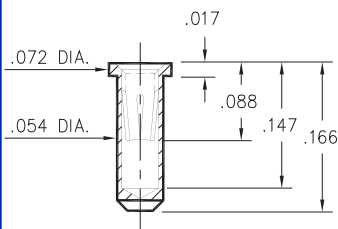


Basic Part Number	Length L
1065-0	.190
1066-0	.160
7065-0	.181

X06X-0-15-XX-30-XX-10-0

Solder mount in .055 min. mounting hole

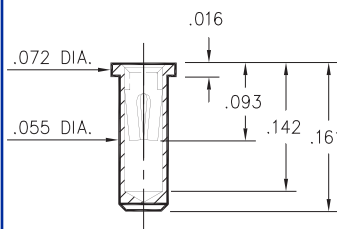
0682



0682-0-15-XX-32-XX-10-0

Solder mount in .056 min. mounting hole

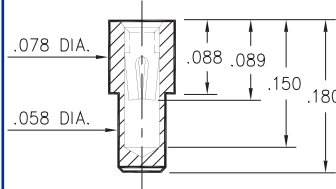
0667



0667-0-15-XX-30-XX-10-0

Solder mount in .057 min. mounting hole

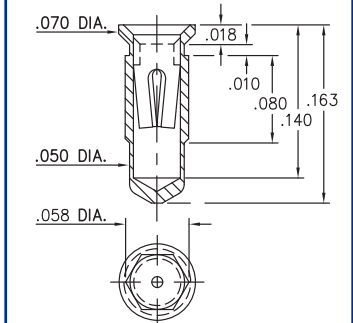
0665



0665-0-15-XX-30-XX-10-0

Solder mount in .061 min. mounting hole

4286



4286-0-15-XX-30-XX-10-0

Hex press-fit in .055 plated thru hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ±.002°

ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

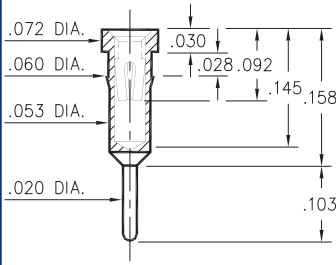
- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

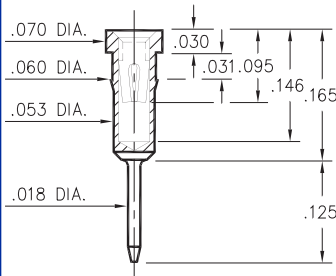
0669 0669-0-15-XX-30-XX-10-0 Solder mount in .060 min. mounting hole	0670 0670-0-15-XX-30-XX-10-0 Solder mount in .060 min. mounting hole	0673 0673-0-15-XX-30-XX-10-0 Surface Mount	0666 0666-0-15-XX-32-XX-10-0 Solder mount in .064 min. mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel. Order as: 0666-0-57-XX-32-XX-10-0									
0341 0341-0-15-XX-30-XX-10-0 Solder mount in .073 mounting hole	0252 0252-0-15-XX-32-XX-10-0 Hex press-fit in .057 plated thru hole	0678 0678-0-15-XX-32-XX-10-0 Press-fit in .057 mounting hole	0676 0676-0-15-XX-30-XX-10-0 Press-fit in .057 mounting hole									
0697 0697-0-15-XX-30-XX-10-0 Press-fit in .057 mounting hole	0668 0668-0-15-XX-30-XX-10-0 Press-fit in .057 mounting hole	0253/1033 <table><tr><th>Basic Part Number</th><th>Length L</th><th>Depth N</th></tr><tr><td>0253-0</td><td>.173</td><td>.148</td></tr><tr><td>1033-0</td><td>.203</td><td>.162</td></tr></table> XXX3-0-15-XX-30-XX-10-0 Press-fit in .057 mounting hole		Basic Part Number	Length L	Depth N	0253-0	.173	.148	1033-0	.203	.162
Basic Part Number	Length L	Depth N										
0253-0	.173	.148										
1033-0	.203	.162										
SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°												
ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0 BASIC PART # SPECIFY SHELL FINISH: 01 200μ" TIN/LEAD OVER NICKEL 80 200μ" TIN OVER NICKEL (RoHS) 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: 02 100μ" TIN/LEAD OVER NICKEL 84 100μ" TIN OVER NICKEL (RoHS) 27 30μ" GOLD OVER NICKEL (RoHS) SELECT CONTACT #30 or #32 CONTACT (DATA ON PAGES 218 & 219) RoHS 2002/95/EC												

4011



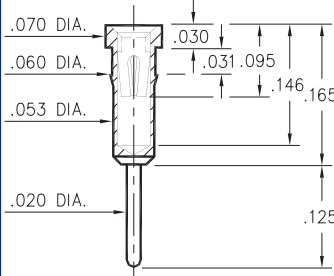
4011-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

1801



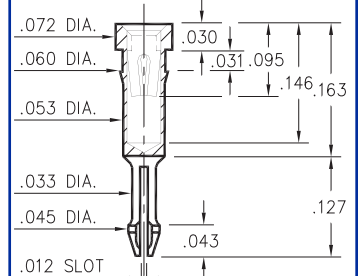
1801-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole
Shell is Ph. Br. Alloy 544 (B2)

1001



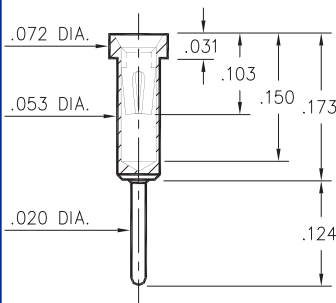
1001-0-15-XX-3X-XX-04-0
Press-fit in .057 mounting hole

0156



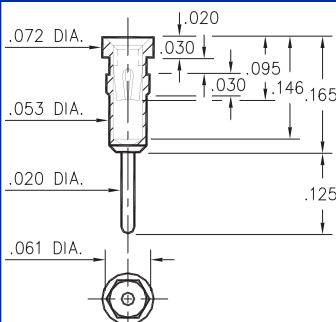
0156-0-18-XX-30-XX-04-0
Self-retention socket pin .038-.043 hole prior to soldering

0255



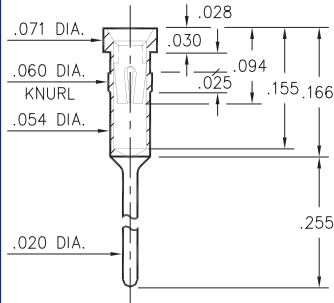
0255-0-15-XX-30-XX-04-0
Solder mount in .022 min. mounting hole

1109



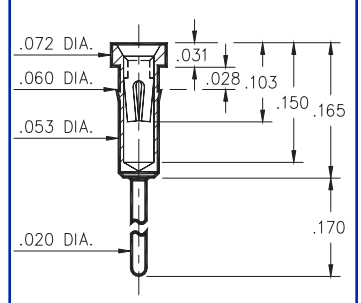
1109-0-15-XX-30-XX-04-0
Hex press-fit in .057 plated thru hole

3013



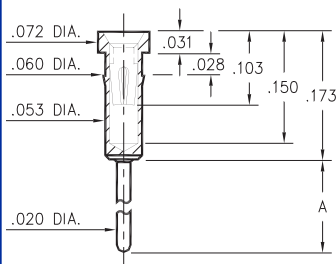
3013-0-15-XX-32-XX-04-0
Press-fit in .057 mounting hole

0134



0134-0-15-XX-3X-XX-04-0
Press-fit in .057 mounting hole

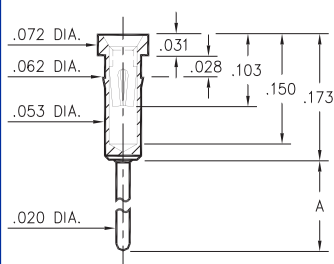
0132/0135



013X-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Length A
0132-0	.273
0135-0	.183

0133/0147



01XX-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole

Basic Part Number	Length A
0133-0	.382
0147-0	.563

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - XX - XX - 04 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



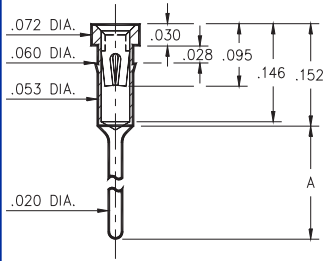
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

1005/1013/8898



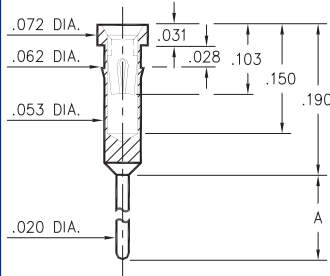
Basic Part Number	Length A
1005-0	.138
1013-0	.165
8898-0	.224

NOTE: 8898 is not annealed & not suitable for auto-clinching

XXXX-0-15-XX-3X-XX-04-0

Press-fit in .057 mounting hole
1/4 hard brass shell for auto-clinching

0145/0146

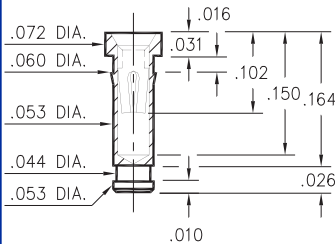


Basic Part Number	Length A
0145-0	.300
0146-0	.410

014X-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

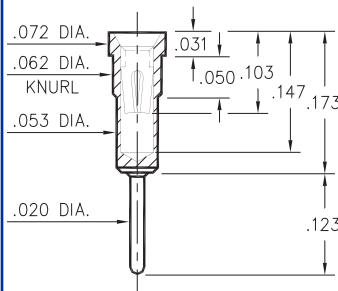
4378



4378-0-15-XX-30-XX-10-0

Press-fit in .057 mounting hole

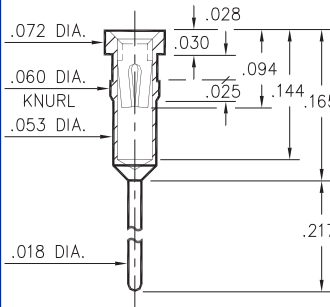
0556



0556-0-15-XX-30-XX-04-0

Press-fit in .059 mounting hole

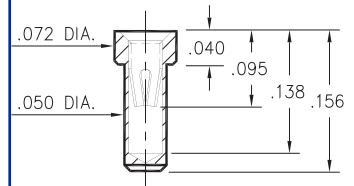
1103



1103-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

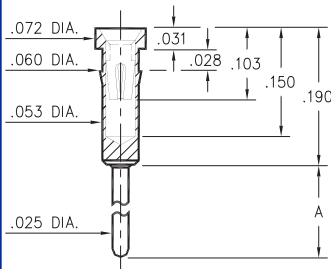
9234



9234-0-15-XX-30-XX-10-0

Solder mount in .052 min. mounting hole

0136/37/38/39/41/48/52

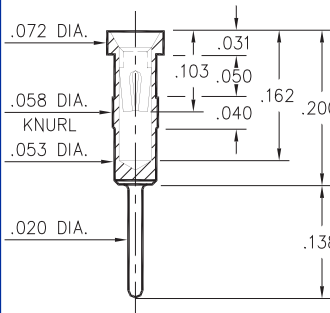


Basic Part Number	Length A
0136-0	1.215
0137-0	.560
0138-0	.210
0139-0	.635
0141-0	.700
0148-0	.455
0152-0	.410

01XX-0-15-XX-30-XX-04-0

Press-fit in .057 mounting hole

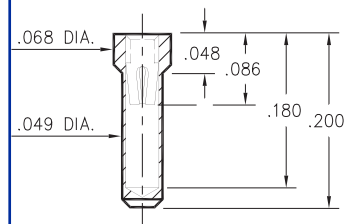
0447



0447-0-15-XX-30-XX-04-0

Press-fit in .056 mounting hole

5660



5660-0-15-XX-30-XX-10-0

Solder mount in .051 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



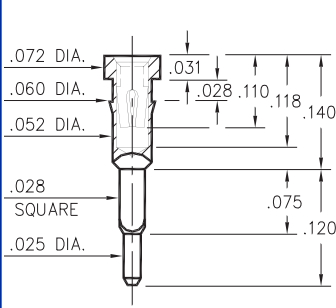
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

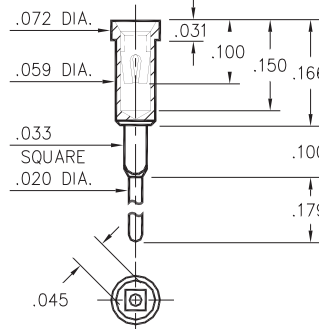
#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

7132



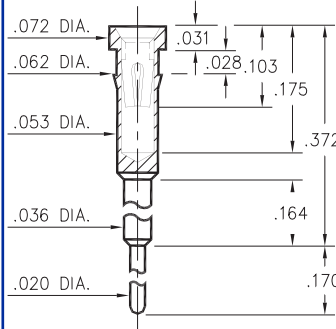
7132-0-15-XX-30-XX-04-0
Square press-fit for .032 ±.002
plated thru hole

8445



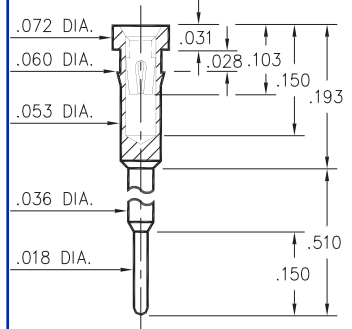
8445-0-15-XX-30-XX-04-0
Square press-fit for .039 ±.002
plated thru hole

1038



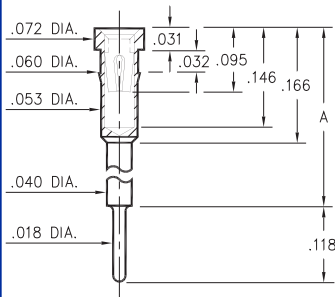
1038-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole

1261



1261-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

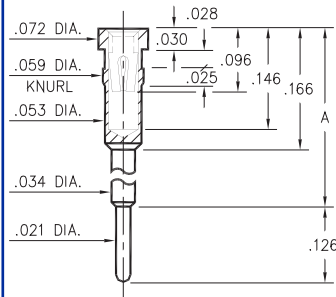
0153



0153-X-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Height A
0153-1	.236
0153-2	.315
0153-3	.402
0153-4	.472
0153-5	.594
0153-6	.699

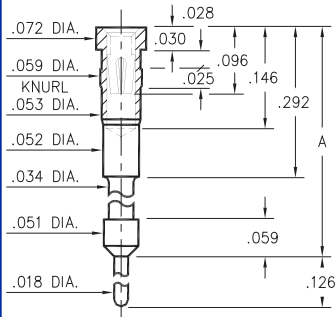
1602/1610



16XX-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Height A
1602-0	.441
1610-0	.642

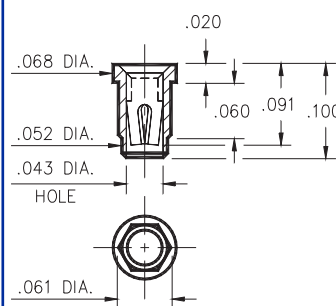
0903/0904



090X-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

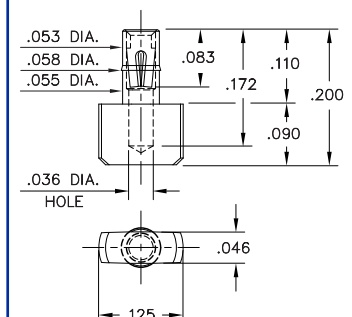
Basic Part Number	Height A
0903-0	.841
0904-0	1.141

8252



8252-0-15-XX-30-XX-10-0
Press-fit in .057 plated thru hole

4078



4078-0-15-XX-30-XX-40-0
Press-fit in .057 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 15 - XX - 30 - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



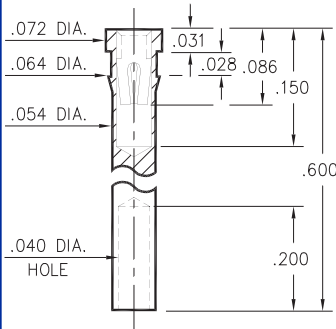
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

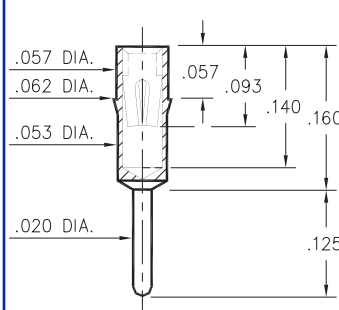
#30 CONTACT (DATA ON PAGES 218)

1707



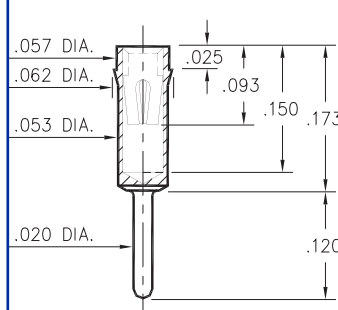
1707-0-19-XX-30-XX-10-0
Press-fit in .061 mounting hole

0240



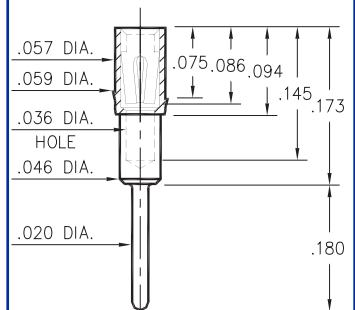
0240-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole

0307



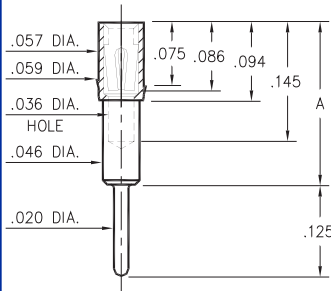
0307-0-15-XX-30-XX-04-0
Press-fit in .059 mounting hole

1753



1753-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

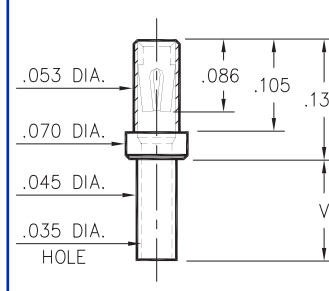
1705/1706/1762



17XX-0-15-XX-3X-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Height A
1705-0	.165
1706-0	.218
1762-0	.300

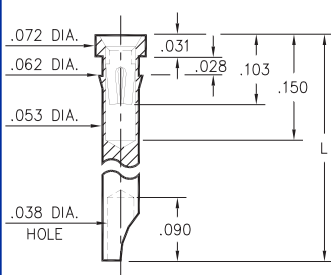
0672



0672-X-15-XX-30-XX-10-0
Swage mount in .049 hole

Basic Part Number	Board Thickness	Length V
0672-1	.031	.052
0672-2	.062	.084
0672-3	.094	.115
0672-4	.125	.146

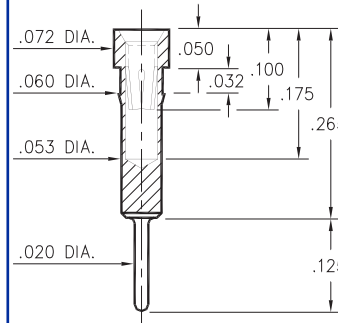
1024/1104



1XX4-0-18-XX-30-XX-10-0
Press-fit in .059 mounting hole

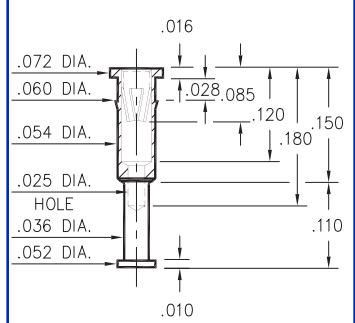
Basic Part Number	Length L
1024-0	.290
1104-0	.450

0498



0498-0-15-XX-35-XX-04-0
Press-fit in .057 mounting hole

8131



8131-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 1X - XX - XX - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



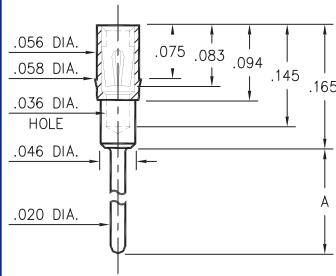
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30 or #35 CONTACT (DATA ON PAGES 218 & 219)

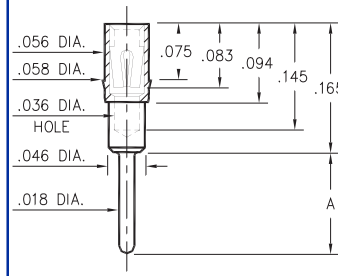
1802/3802/4030/8866



Basic Part Number	Length A
1802-0	.125
3802-0	.165
8866-0	.775
4030-0	.815

XXXX-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

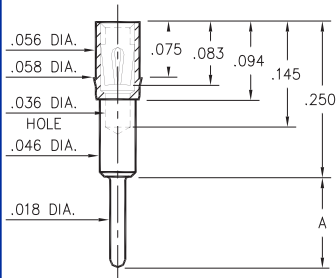
1803/1805



Basic Part Number	Length A
1803-0	.145
1805-0	.213

180X-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

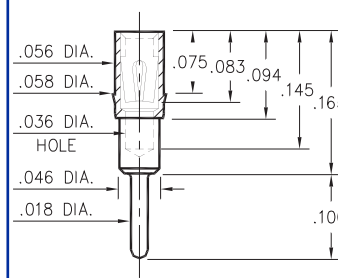
1804/1806



Basic Part Number	Length A
1804-0	.080
1806-0	.115

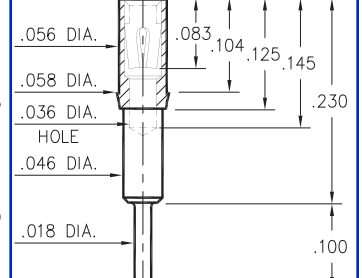
180X-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

1808



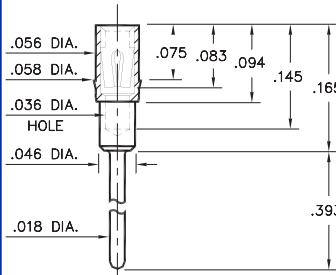
1808-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

1807



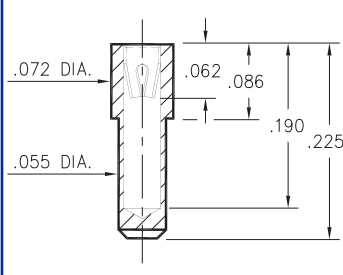
1807-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

3805



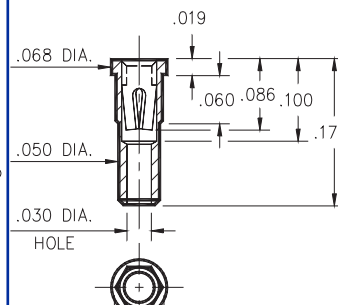
3805-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

8830



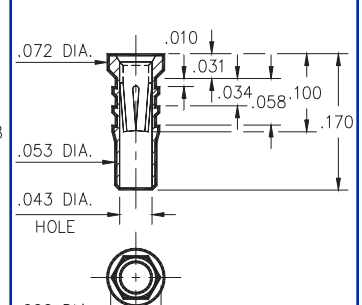
8830-0-15-XX-22-XX-10-0
Solder mount in .057 min. mounting hole

4622



4622-0-15-XX-30-XX-10-0
Hex press-fit in .053 plated thru hole

6252



6252-0-15-XX-32-XX-10-0
Hex press-fit in .057 plated thru hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



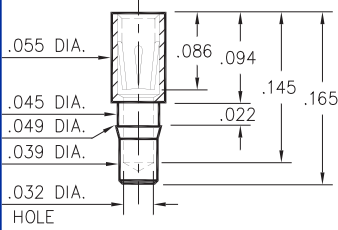
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

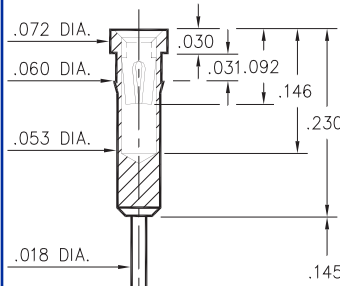
#22, #30, #32 or #43 CONTACT (DATA ON PAGES 218,219 & 220)

0385



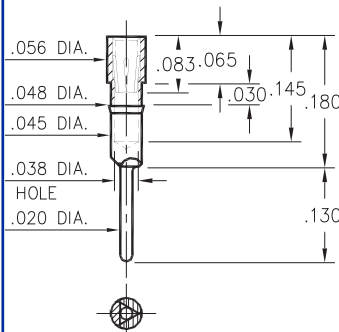
0385-0-15-XX-43-XX-10-0
Press-fit in .046 mounting hole

4001



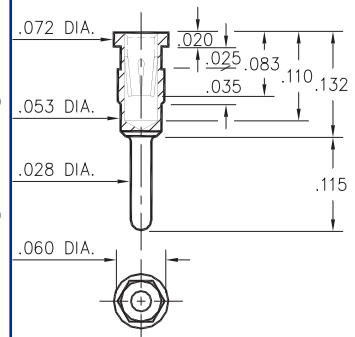
4001-0-15-XX-43-XX-04-0
Press-fit in .057 mounting hole

1782



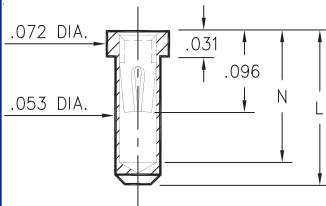
1782-0-15-XX-43-XX-04-0
Press-fit in .045 mounting hole

5960



5960-0-15-XX-43-XX-04-0
Hex press-fit in .057 plated thru hole

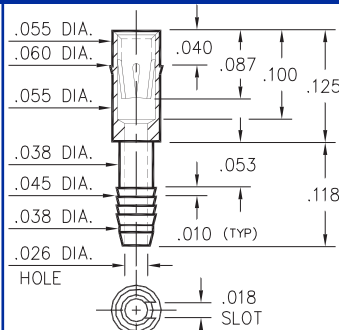
1401/3185



XXXX-0-15-XX-30-XX-10-0
Solder mount in .055 min. mounting hole

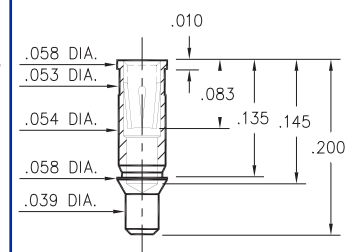
Basic Part Number	Depth N	Length L
1401-0	.145	.165
3185-0	.109	.130

4310



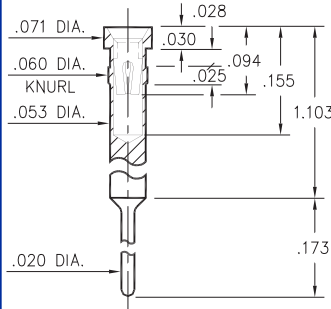
4310-0-31-XX-43-XX-04-0
Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.

1385



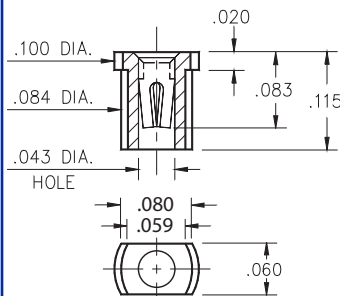
1385-0-15-XX-43-XX-10-0
Surface mount

3018



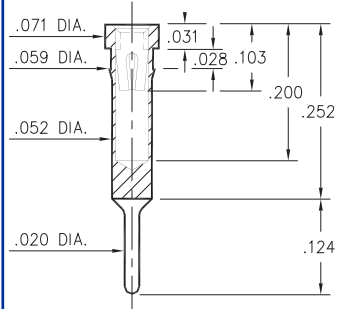
3018-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

3907



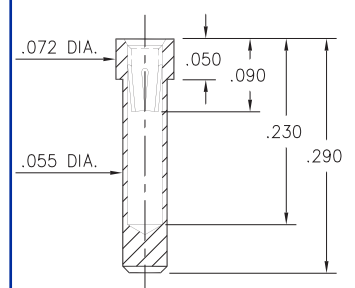
3907-0-18-XX-30-XX-10-0
Surface mount
Also available on 12mm wide carrier tape: 4,000 parts per 13" reel.
Order as: 3907-0-58-XX-30-XX-10-0

8852



8852-0-15-XX-30-XX-04-0
Press-fit in .056 mounting hole

8363



8363-0-15-XX-35-XX-10-0
Solder mount in .057 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



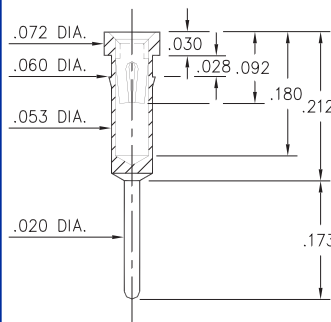
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

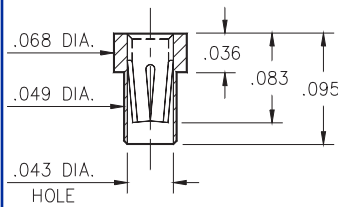
#30, #35 or #43 CONTACT (DATA ON PAGES 218, 219 & 220)

8964



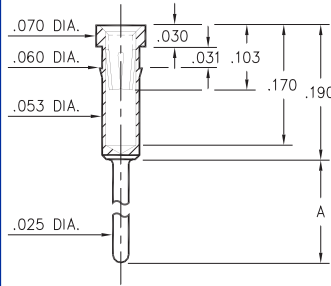
8964-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

5342



5342-0-15-XX-35-XX-10-0
Solder mount in .051 min. mounting hole

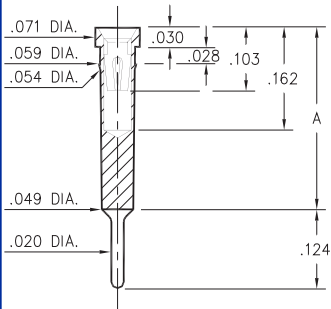
8857



8857-X-15-XX-32-XX-04-0
Press-fit in .057 mounting hole

Basic Part Number	Length A
8857-0	.311
8857-1	.448
8857-2	.589
8857-3	.731
8857-4	.871

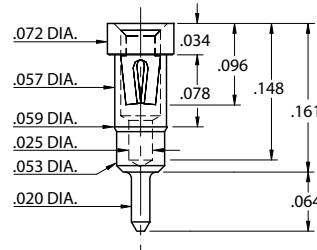
8862/8877



88XX-0-15-XX-30-XX-04-0
Press-fit in .056 mounting hole

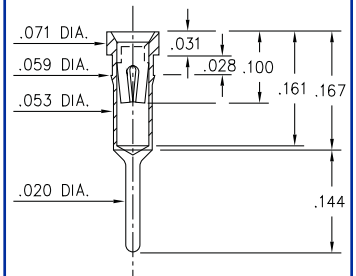
Basic Part Number	Length A
8862-0	.300
8877-0	.350

1334



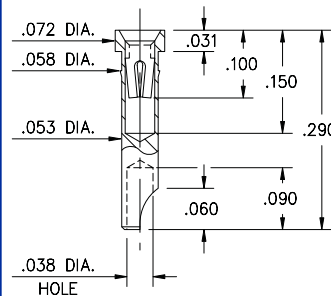
1334-0-15-XX-30-XX-04-0
Press-fit in .057 mounting hole

8855



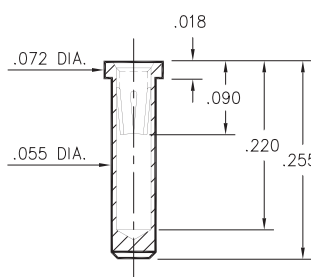
8855-0-15-XX-30-XX-34-0
Press-fit in .057 mounting hole

2954



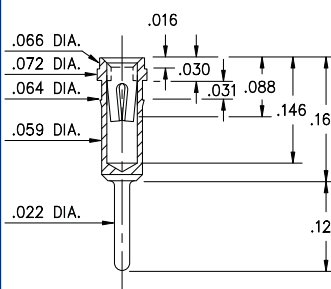
2954-0-18-XX-30-XX-10-0
Press-fit in .057 mounting hole

9363



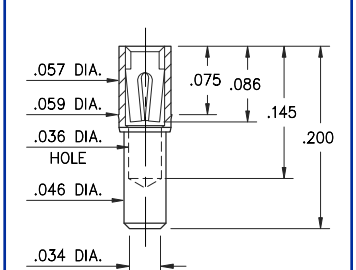
9363-0-15-XX-35-XX-10-0
Solder mount in .057 min. mounting hole

1023



1023-0-15-XX-30-XX-04-0
Press-fit in .061 mounting hole

1701



1701-0-15-XX-30-XX-10-0
Press-fit in .057 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES

TOLERANCES ON:

LENGTHS: ±.005

DIAMETERS: ±.002

ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- 84 100μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30, #32 or #35 CONTACT (DATA ON PAGES 218 & 219)

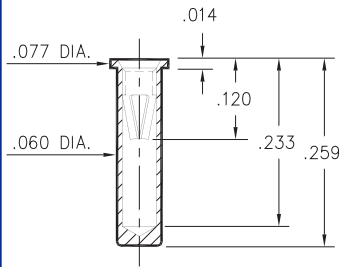
0338	0378	6002	7009
0338-0-15-XX-15-XX-10-0 Solder mount in .057 min. mounting hole	0378-0-15-XX-15-XX-10-0 Solder mount in .082 min. mounting hole	6002-0-19-XX-15-XX-10-0 Solder mount in .059 min. mounting hole	7009-0-19-XX-15-XX-10-0 Press-fit in .063 mounting hole

0339			
0339-0-15-XX-15-XX-10-0 Solder mount in .057 min. mounting hole			

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SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 1X - XX - 15 - XX - 10 - 0 BASIC PART # → SPECIFY SHELL FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS) CONTACT #15 CONTACT (DATA ON PAGE 220)
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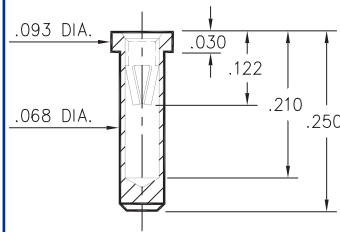
0295



0295-0-15-XX-06-XX-10-0

Solder mount in .063 min. mounting hole
Also available on 24mm wide carrier
tape: 1,000 parts per 13" reel.
Order as: 0295-0-57-XX-06-XX-10-0

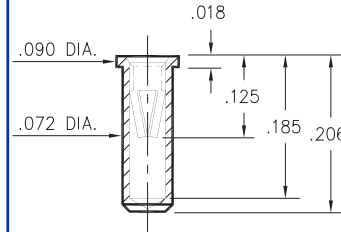
0292



0292-0-15-XX-06-XX-10-0

Solder mount in .071 min.
mounting hole

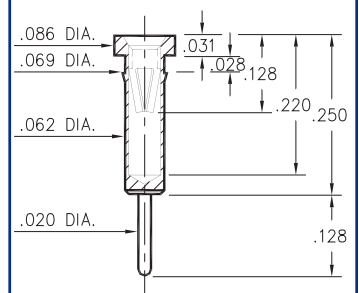
0294



0294-0-15-XX-06-XX-10-0

Solder mount in .076 min.
mounting hole

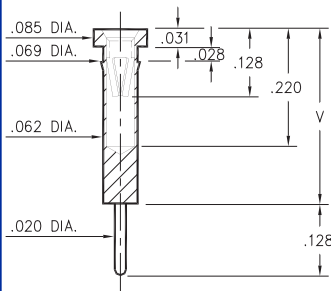
0398



0398-0-15-XX-06-XX-04-0

Press-fit in .066 mounting hole

0397

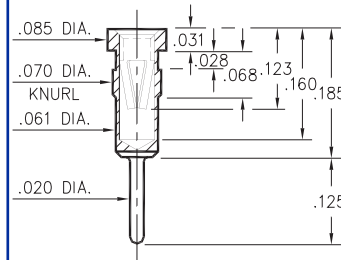


0397-X-15-XX-06-XX-04-0

Press-fit in .066 mounting hole

Basic Part Number	Length V
0397-0	.353
0397-1	.333
0397-2	.413

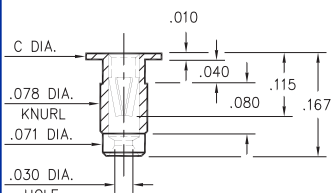
0297



0297-0-15-XX-06-XX-04-0

Press-fit in .067 mounting hole

9019/9039



90X9-X-19-XX-06-XX-10-0

Press-fit in .075 mounting hole

Basic Part Number	Head Dia. C
9019-0	.125
9039-0	.100

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 1X - XX - 06 - XX - XX - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



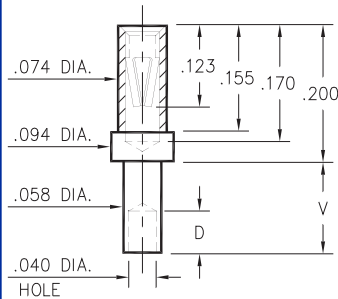
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#06 CONTACT (DATA ON PAGE 220)

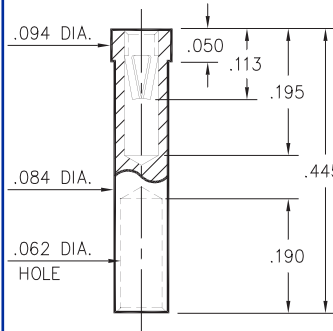
0326



0326-X-19-XX-06-XX-10-0
Swage mount in .060 hole

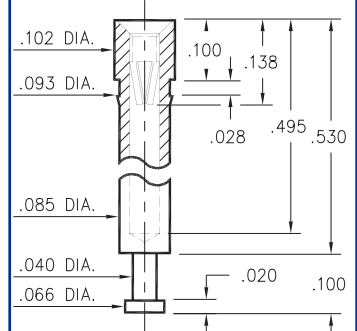
Basic Part Number	Board Thickness	Length V	Depth D
0326-1	.031	.062	.040
0326-2	.062	.094	.062
0326-3	.094	.125	.062
0326-4	.125	.156	.062

5295



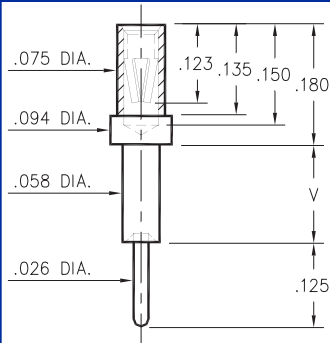
5295-0-19-XX-06-XX-10-0
Solder mount in .086 min. mounting hole

0396



0396-0-15-XX-06-XX-10-0
Press-fit in .090 mounting hole

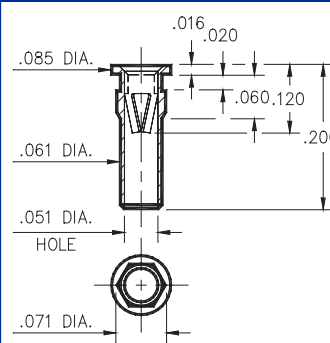
0298



0298-X-15-XX-06-XX-10-0
Swage mount in .060 hole

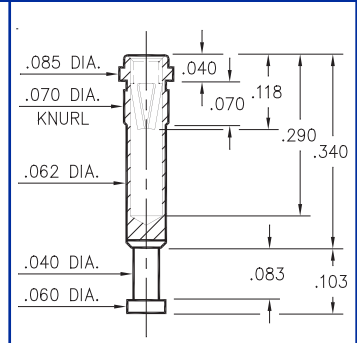
Basic Part Number	Board Thickness	Length V
0298-1	.031	.051
0298-2	.062	.082
0298-3	.094	.113
0298-4	.125	.145

9293



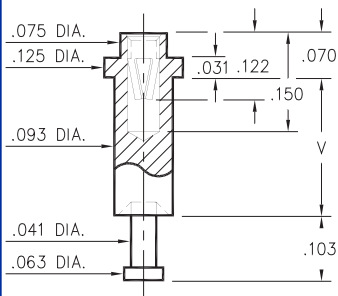
9293-0-15-XX-06-XX-10-0
Hex press-fit in .067 plated thru hole

8864



8864-0-15-XX-06-XX-10-0
Press-fit in .067 mounting hole

0664



0664-X-15-XX-06-XX-10-0
Swage mount in .096 hole

Basic Part Number	Board Thickness	Length V
0664-1	.094	.125
0664-2	.125	.156
0664-3	.188	.219

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 1X - XX - 06 - XX - 10 - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

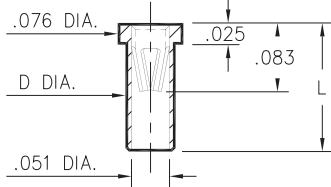
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#06 CONTACT (DATA ON PAGE 220)

0291 0291-0-15-XX-16-XX-10-0 Hex press-fit in .067 plated thru hole	0293 0293-0-15-XX-16-XX-10-0 Press-fit in .067 mounting hole	0287 0287-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole Also available on 8mm wide carrier tape: 3,250 parts per 13" reel. Order as: 0287-0-57-XX-16-XX-10-0	0285 0285-0-15-XX-16-XX-10-0 Solder mount in .065 min. mounting hole
0284 0284-0-15-XX-16-XX-10-0 Solder mount in .070 min. mounting hole	8114 8114-0-15-XX-16-XX-04-0 Press-fit from underside of pc board into .065 mounting hole	0407 0407-0-15-XX-16-XX-04-0 Press-fit in .066 mounting hole	0415 0415-0-15-XX-16-XX-10-0 Solder mount in .063 min. mounting hole Also available on 24mm wide carrier tape: 1,500 parts per 13" reel. Order as: 0415-0-57-XX-16-XX-10-0
0303 0303-0-19-XX-16-XX-10-0 Wire Termination Press-fit in .067 mounting hole	0306 0306-0-19-XX-16-XX-10-0 Wire Termination #18 gage crimp barrel	0273 0273-0-15-XX-16-XX-10-0 Press-fit in .078 mounting hole	7520 7520-0-15-XX-16-XX-10-0 Press-fit in .066 mounting hole
SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 1X - XX - 16 - XX - XX - 0 BASIC PART # SPECIFY SHELL FINISH: 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS) CONTACT #16 CONTACT (DATA ON PAGE 221) RoHS 2002/95/EC		

0305

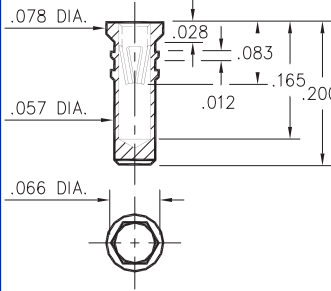


Basic Part Number	Length L	Dia. D
0305-0	.095	.056
0305-1	.105	.058
0305-2	.155	.058

0305-X-15-XX-47-XX-10-0

Solder mount in .059/.061 mounting hole
Also available on 24mm wide carrier tape: 1,500 parts per 13" reel.
Order as: 0305-2-57-XX-47-XX-10-0

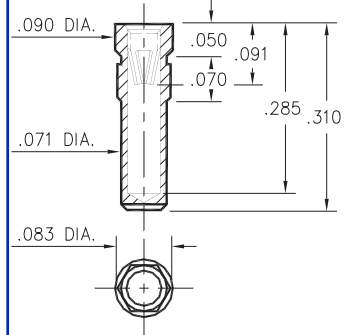
0279



0279-0-15-XX-47-XX-10-0

Hex press-fit in .062 plated thru hole

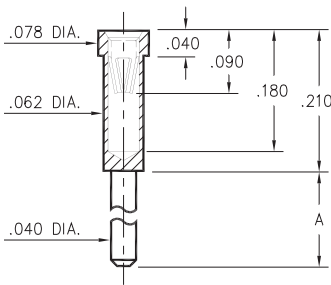
0330



0330-0-15-XX-47-XX-10-0

Hex press-fit in .079 plated thru hole

0300/8300

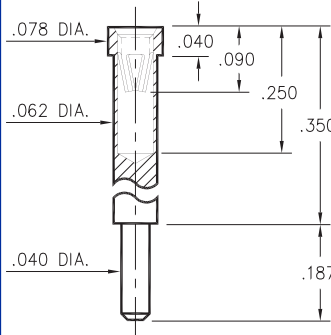


Basic Part Number	Length A
0300-1	.110
0300-2	.187
8300-0	.140

X300-X-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

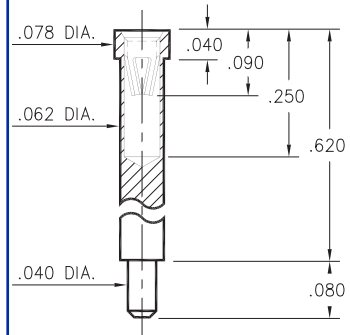
0301



0301-1-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

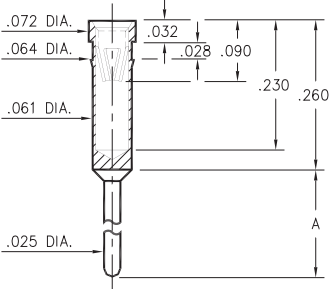
0309



0309-2-15-XX-47-XX-10-0

Solder mount in .042 min. mounting hole

0399

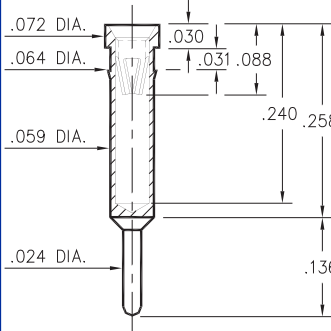


Basic Part Number	Length A
0399-0	.230
0399-1	.180

0399-X-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

1304



1304-0-15-XX-47-XX-04-0

Press-fit in .061 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

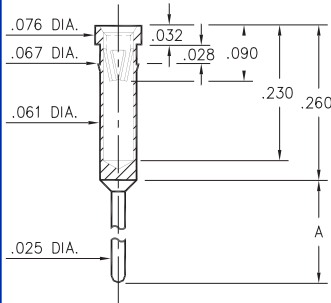
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#47 CONTACT (DATA ON PAGE 221)

1305 1305-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole.	1306 1306-0-15-XX-47-XX-04-0 Press-fit in .061 mounting hole.	7305 7305-0-15-XX-47-XX-10-0 Solder mount in .060 min. mounting hole.	0400 0400-0-15-XX-47-XX-04-0 Press-fit in .067 mounting hole.
0335 0335-0-15-XX-47-XX-04-0 Hex press-fit in .064 plated thru hole	4614 4614-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.	4615 4615-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.	7614 7614-0-31-XX-47-XX-04-0 Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.
8401 8401-0-15-XX-47-XX-04-0 Hex press-fit in .063 plated thru hole	2400 2400-0-15-XX-47-XX-04-0 Press-fit in .066 mounting hole.	6857 6857-0-15-XX-47-XX-10-0 Press-fit in .061 mounting hole.	9393 9393-0-15-XX-47-XX-10-0 Press-fit in .067 mounting hole.
SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - XX - XX - 47 - XX - XX - 0 BASIC PART # → SPECIFY SHELL FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS) CONTACT #47 CONTACT (DATA ON PAGE 221) RoHS 2002/95/EC		

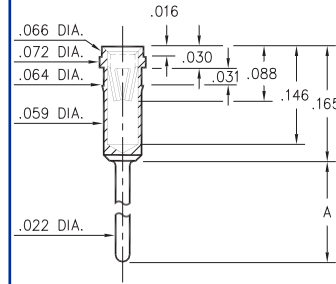
0401/6401



Basic Part Number	Length A
0401-0	.340
6401-0	.540

X401-0-15-XX-47-XX-04-0
Press-fit in .064 mounting hole

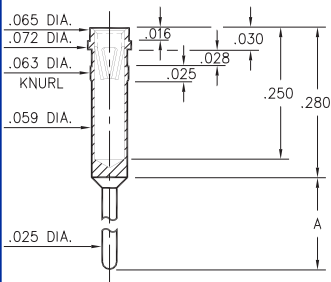
1303/8303



Basic Part Number	Length A
1303-0	.125
8303-0	.800

X303-0-15-XX-47-XX-04-0
Press-fit in .061 mounting hole

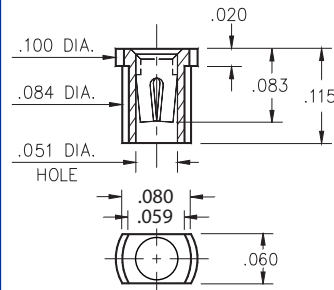
4095



Basic Part Number	Length A
4095-0	.635

409X-0-15-XX-47-XX-04-0
Press-fit in .061 mounting hole

8806



8806-0-18-XX-47-XX-40-0
Surface mount
Also available on 12mm wide carrier tape: 4,000 parts per 13" reel.
Order as: 8806-0-58-XX-47-XX-40-0

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - 47 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
01 200μ" TIN/LEAD OVER NICKEL
◇ 80 200μ" TIN OVER NICKEL (RoHS)
◇ 15 10μ" GOLD OVER NICKEL (RoHS)

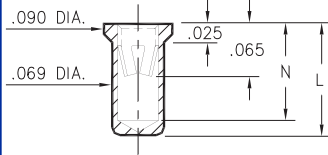
SPECIFY CONTACT FINISH:
01 200μ" TIN/LEAD OVER NICKEL
◇ 80 200μ" TIN OVER NICKEL (RoHS)
◇ 27 30μ" GOLD OVER NICKEL (RoHS)



CONTACT

#47 CONTACT (DATA ON PAGE 221)

0331/9353

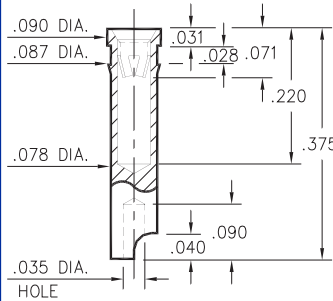


Basic Part Number	Length L	Depth N
0331-0	.150	.127
9353-0	.170	.147

X3XX-X-15-XX-18-XX-10-0

Solder mount in .071 min. mounting hole

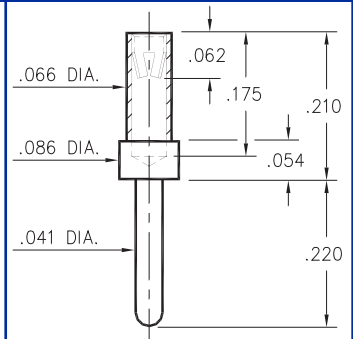
7405



7405-0-18-XX-18-XX-10-0

Press-fit in .084 mounting hole

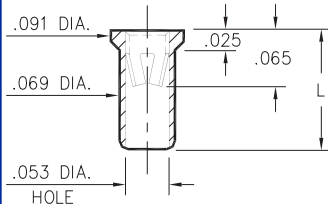
3450



3450-0-15-XX-18-XX-04-0

Solder mount in .043 min. mounting hole

9354/7406

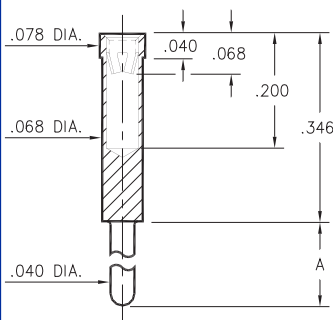


Basic Part Number	Length L
7406-0	.120
9354-0	.170

XXXX-0-15-XX-18-XX-10-0

Solder mount in .071 min. mounting hole

0319

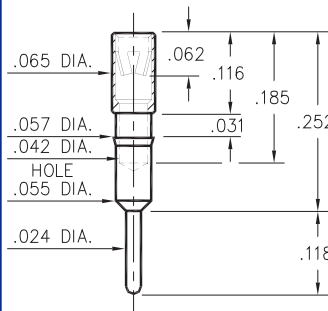


0319-X-15-XX-18-XX-04-0

Solder mount in .042 min. mounting hole

Basic Part Number	Length A
0319-0	.240
0319-1	.280

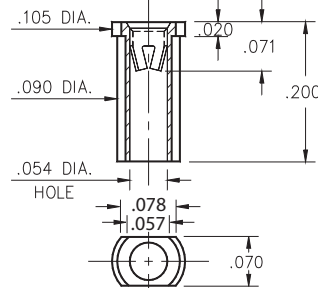
1313



1313-0-15-XX-18-XX-04-0

Press-fit in .056 mounting hole

6628

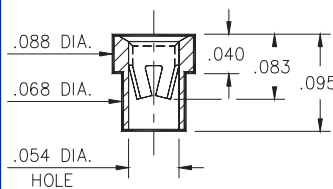


6628-0-18-XX-18-XX-10-0

Surface mount

Also available on 12mm wide carrier tape: 3,700 parts per 13" reel.
Order as: 6628-0-58-XX-18-XX-10-0

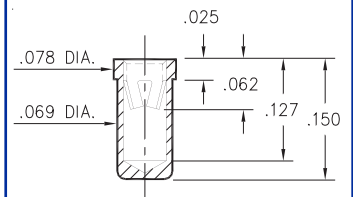
3520



3520-0-15-XX-18-XX-10-0

Solder mount in .070 min. mounting hole

8331



8331-0-15-XX-18-XX-10-0

Solder mount in .071 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - 18 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



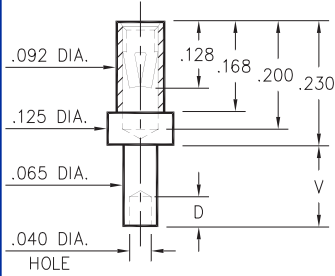
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#18 CONTACT (DATA ON PAGE 222)

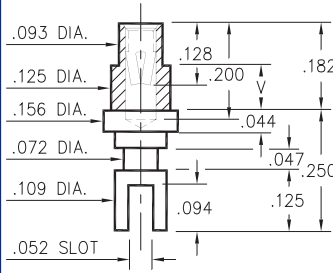
0344



Basic Part Number	Board Thickness	Length V	Depth D
0344-1	.031	.062	.040
0344-2	.062	.094	.062
0344-3	.094	.125	.062
0344-4	.125	.156	.062

0344-X-19-XX-34-XX-10-0
Swage mount in .067 hole

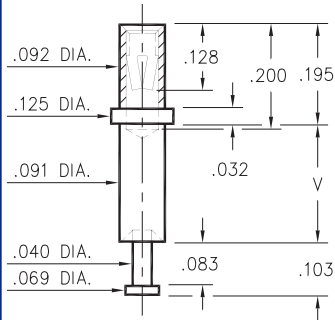
0349



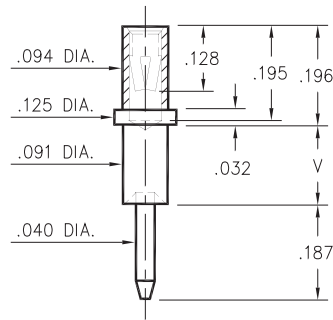
Basic Part Number	Board Thickness	Length V
0349-2	.062	.094
0349-3	.094	.125
0349-4	.125	.156

0349-X-31-XX-34-XX-10-0
Swage mount in .129 hole

0323/0324



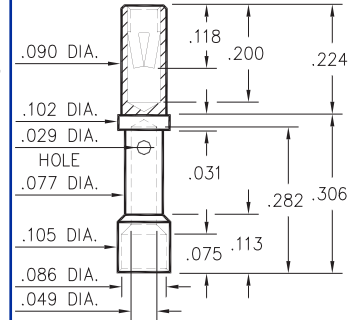
0323-X-15-XX-34-XX-10-0
Swage mount in .094 hole



0324-X-15-XX-34-XX-10-0
Swage mount in .094 hole

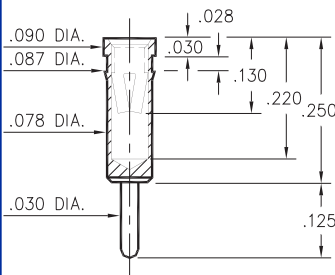
Basic Part Number	Board Thickness	Length V
032X-1	.031	.062
032X-2	.062	.094
032X-3	.094	.125
032X-4	.125	.156
032X-5	.188	.219

0348



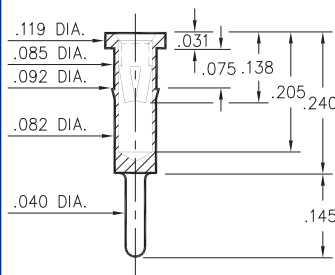
0348-0-33-XX-34-XX-10-0
#20A Crimp Barrel

0405



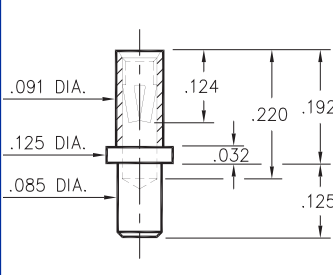
0405-0-15-XX-34-XX-04-0
Press-fit in .084 mounting hole

0336



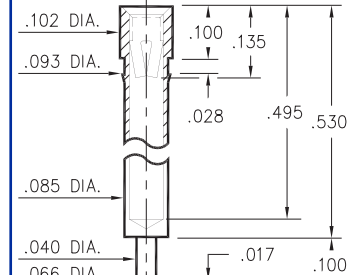
0336-0-15-XX-34-XX-04-0
Press-fit in .089 mounting hole

0322



0322-0-15-XX-34-XX-10-0
Solder mount in .089 min. mounting hole

0325



0325-0-15-XX-34-XX-10-0
Press-fit in .090 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



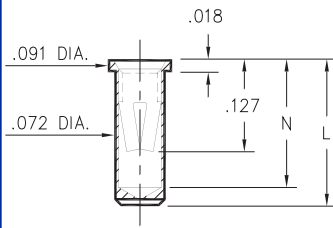
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#34 CONTACT (DATA ON PAGE 222)

0327/0351/0373

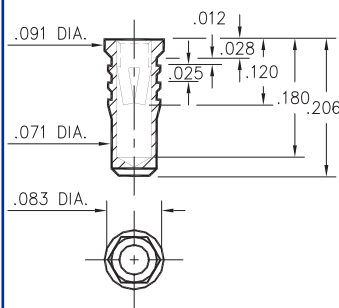


Basic Part Number	Length L	Depth N
0327-0	.206	.180
0351-0	.226	.200
0373-0	.270	.241

03XX-0-15-XX-34-XX-10-0

Solder mount in .075 min. mounting hole

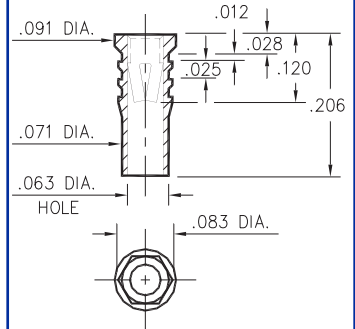
0328



0328-0-15-XX-34-XX-10-0

Hex press-fit in .079 plated thru hole

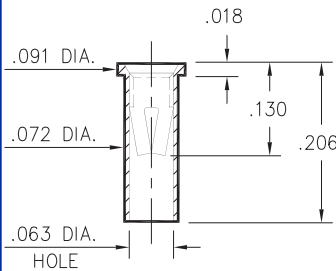
0334



0334-0-15-XX-34-XX-10-0

Hex press-fit in .079 plated thru hole

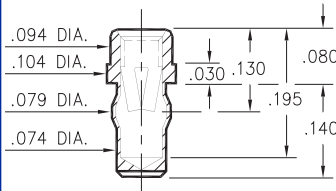
0312



0312-0-15-XX-34-XX-10-0

Solder mount in .075 min. mounting hole

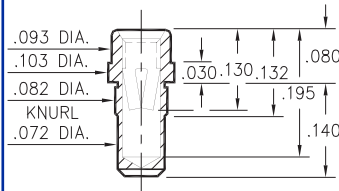
0333



0333-0-42-XX-34-XX-10-0

Press-fit in .076 mounting hole

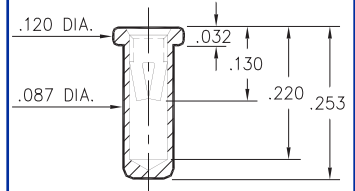
0357



0357-0-15-XX-34-XX-10-0

Press-fit in .078 mounting hole

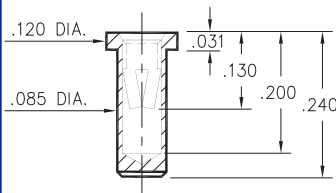
0317



0317-0-15-XX-34-XX-10-0

Solder mount in .091 min. mounting hole

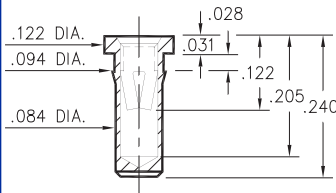
0340



0340-0-15-XX-34-XX-10-0

Solder mount in .087 min. mounting hole

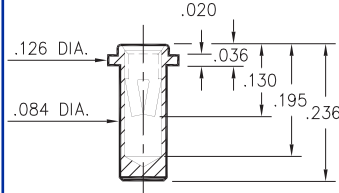
0345



0345-0-15-XX-34-XX-10-0

Press-fit in .089 mounting hole

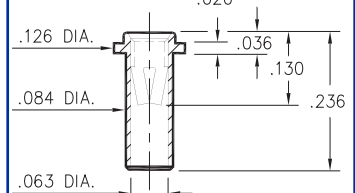
0316



0316-0-15-XX-34-XX-10-0

Solder mount in .087 min. mounting hole

0314



0314-0-15-XX-34-XX-10-0

Solder mount in .087 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 34 - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#34 CONTACT (DATA ON PAGE 222)

0359 0359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0358 0358-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0360 0360-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole	0343 0343-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole
0356 0356-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole	6659 6659-0-15-XX-34-XX-10-0 Solder mount in .102 min. mounting hole	0347 0347-0-15-XX-34-XX-10-0 Solder mount in .120 min. mounting hole	0329 0329-0-15-XX-34-XX-10-0 Solder mount in .075 min. mounting hole. "knock out" bottom.
0814 0814-0-15-XX-34-XX-04-0 Solder mount in .082 min. mounting hole	5059 5059-0-15-XX-34-XX-04-0 Press-fit in .090 mounting hole	8360 8360-0-15-XX-34-XX-10-0 Press-fit in .087 mounting hole	9359 9359-0-15-XX-34-XX-10-0 Press-fit in .090 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: ±.005
 DIAMETERS: ±.002
 ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#34 CONTACT (DATA ON PAGE 222)

8838	3100	8853	6800
8838-0-15-XX-34-XX-10-0 Solder mount in .086 min. mounting hole	3100-0-15-XX-34-XX-10-0 Solder mount in .074 min. mounting hole	8853-0-15-XX-34-XX-10-0 Press-fit in .071 mounting hole	6800-0-15-XX-34-XX-04-0 Solder mount in .080 min. mounting hole

8206	0739		
8206-0-15-XX-34-XX-40-0 Surface mount	0739-0-15-XX-34-XX-10-0 Hex press-fit in .078±.002 plated thru hole		

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SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 15 - XX - 34 - XX - XX - 0 BASIC PART # → SPECIFY SHELL FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS) CONTACT #34 CONTACT (DATA ON PAGE 222)
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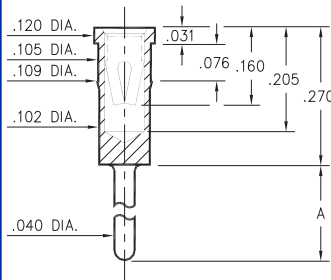
0355	0354	3490	3808
0355-0-15-XX-02-XX-10-0 Solder mount in .102 min. mounting hole	0354-0-15-XX-02-XX-10-0 Pentagonal press-fit in .104 min. plated thru hole	3490-0-15-XX-02-XX-10-0 Press-fit in .091 mounting hole	3808-0-15-XX-02-XX-10-0 Press-fit in .090 mounting hole

9184	9222		
9184-0-15-XX-02-XX-40-0 Bottom entry, surface mount .092 min. plated thru hole. Also available on carrier tape, Order as: 9184-0-57-XX-02-XX-40-0	9222-2-15-XX-02-XX-40-0 Bottom entry, surface mount .082 min. plated thru hole Also available on carrier tape, Order as: 9222-2-57-XX-02-XX-40-0	Carrier tape format for 9184 & 9222. 1,500 pieces per 13" reel	

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SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 15 - XX - 02 - XX - XX - 0 BASIC PART # SPECIFY SHELL FINISH: 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 27 30μ" GOLD OVER NICKEL (RoHS) CONTACT #02 CONTACT (DATA ON PAGE 223) RoHS 2002/95/EC
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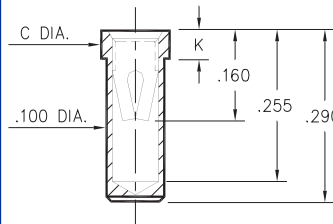
0433/8433



Basic Part Number	Length A
0433-0	.120
8433-0	.330

X433-0-15-XX-03-XX-04-0
Press-fit in .106 mounting hole

0435/0436

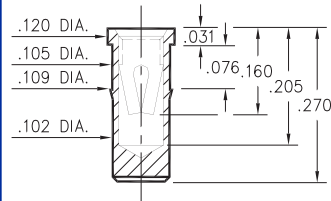


Basic Part Number	Dia. C	Length K
0435-0	.118	.050
0436-0	.125	.070

0435-0-15-XX-03-XX-10-0

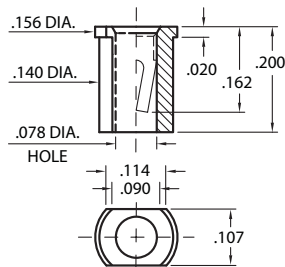
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier
tape: 950 parts per 13" reel.
Order as: 0435-0-57-XX-03-XX-10-0

0434



0434-0-15-XX-03-XX-10-0
Press-fit in .106 mounting hole

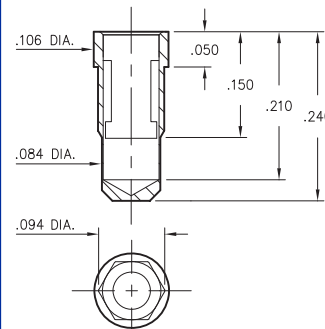
4064



4064-0-18-XX-03-XX-40-0

Surface mount
Also available on 16mm wide carrier
tape: 2,400 parts per 13" reel.
Order as: 4064-0-58-XX-03-XX-40-0

0342



0342-0-15-XX-42-XX-10-0

Hex press-fit in .090±.002
plated thru hole

• 0342 receptacle uses Mill-Max's new #42 Contact. This receptacle will accept the $\varnothing.061 \pm .002$ power pins of 1/4 brick DC/DC converters.

• #42 contact can be ordered in standard receptacles that use #03 contact; or it can be specified as the spring element inside custom made receptacles.

Mechanical Data #42 Contact:

Insertion/Extraction Force with a $\varnothing.061$ (nominal) pin:

First Cycle		2nd & Subsequent Cycles	
Insertion Force	Extraction Force	Insertion Force	Extraction Force
20N	6N	10N	6N

Compliance Test (the "spring back" characteristic of the contact to accept $\varnothing.059$ small pin after insertion of a $\varnothing.063$ large pin) :

Initial Cycle with $\varnothing.059$ pin		Second Cycle with $\varnothing.063$ pin		Third Cycle with $\varnothing.059$ pin	
Ins. Force	Ext. Force	Ins. Force	Ext. Force	Ins. Force	Ext. Force
18N	6N	22N	7N	3N	2N

(Insertion/Extraction Forces are in Newtons and measured with polished steel gage pins having elliptical shaped tips).

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 1X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 μ " GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

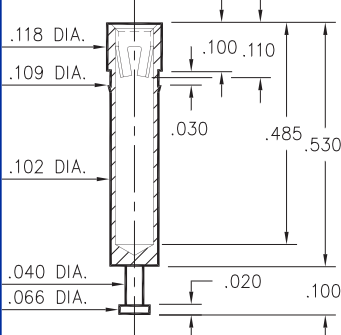
- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 27 30 μ " GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#03 or #42 CONTACT (DATA ON PAGE 224)

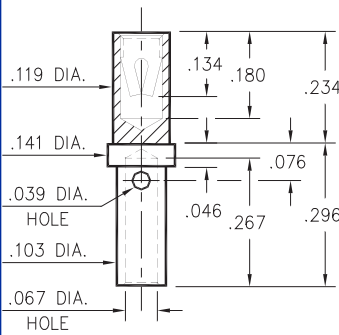
0364	0363	0365	0366
0364-0-15-XX-13-XX-10-0 Solder mount in .100 min. mounting hole Also available on 16mm wide carrier tape: 1,300 parts per 13" reel. Order as: 0364-0-57-XX-13-XX-10-0	0363-0-15-XX-23-XX-10-0 Solder mount in .102 min. mounting hole	0365-0-15-XX-23-XX-10-0 Hex press-fit in .105 plated thru hole	0366-0-15-XX-13-XX-10-0 Press-fit in .109 mounting hole
0372	0362	0367	9324
0372-0-15-XX-13-XX-10-0 Solder mount in .102 min. mounting hole	0362-0-15-XX-X3-XX-10-0 Solder mount in .102 min. mounting hole	0367-0-15-XX-23-XX-10-0 Square press-fit in .040 plated thru hole	9324-0-15-XX-23-XX-04-0 Press-fit in .106 mounting hole
0492	0381	4034	3044
0492-0-15-XX-13-XX-04-0 Press-fit in .106 mounting hole	0381-0-15-XX-23-XX-10-0 Press-fit in .104 mounting hole	4034-0-15-XX-23-XX-04-0 Press-fit in .109 mounting hole	3044-0-15-XX-23-XX-04-0 Solder mount in .104 min. mounting hole
SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 15 - XX - XX - XX - XX - 0 BASIC PART # → SPECIFY SHELL FINISH: → 01 200μ" TIN/LEAD OVER NICKEL 80 200μ" TIN OVER NICKEL (RoHS) 15 10μ" GOLD OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: → 01 200μ" TIN/LEAD OVER NICKEL 80 200μ" TIN OVER NICKEL (RoHS) 27 30μ" GOLD OVER NICKEL (RoHS) SELECT CONTACT #13 or #23 CONTACT (DATA ON PAGES 224 & 225) RoHS 2002/95/EC		

0496



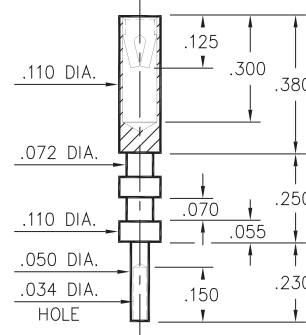
0496-0-15-XX-23-XX-10-0
Press-fit in .106 mounting hole

0368



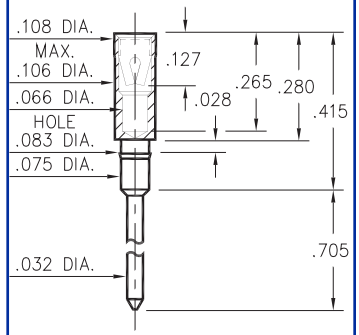
0368-0-33-XX-13-XX-10-0
#16A Crimp Barrel

8067



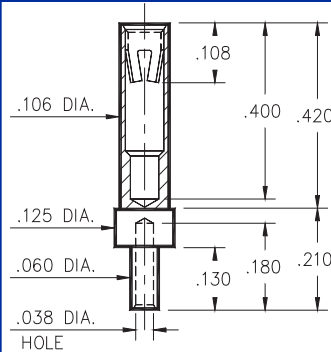
8067-0-19-XX-13-XX-10-0
Wire Termination

1105



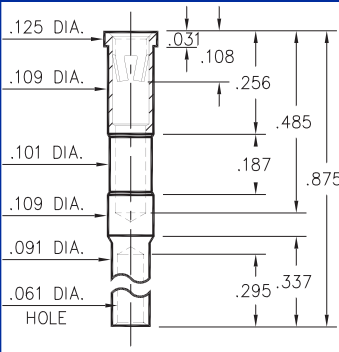
1105-0-15-XX-13-XX-04-0
Press-fit in .080 mounting hole

8730



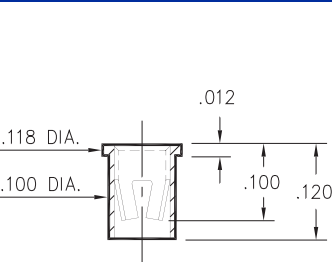
8730-0-19-XX-23-XX-10-0
Wire Termination

3667



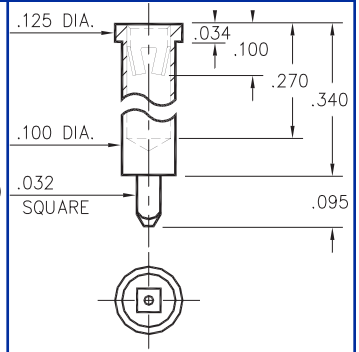
3667-0-19-XX-23-XX-10-0
Wire Termination

9372



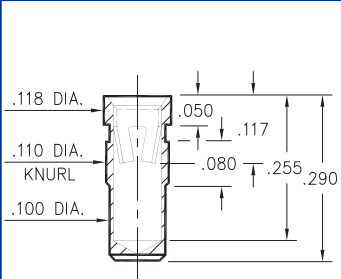
9372-0-15-XX-23-XX-10-0
Solder mount in .102 min. mounting hole

4582



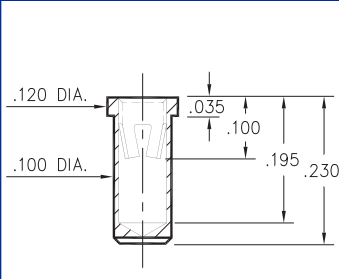
4582-0-15-XX-23-XX-10-0
Square press-fit in .040 plated thru hole

5834



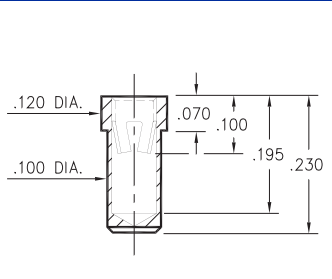
5834-0-15-XX-23-XX-10-0
Press-fit in .107 mounting hole

9401



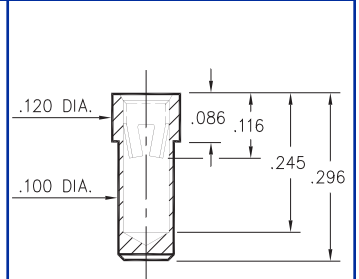
9401-0-15-XX-23-XX-10-0
Solder mount in .102 min. mounting hole
Also available on 24mm wide carrier tape: 1,100 parts per 13" reel.
Order as: 9401-0-57-XX-23-XX-10-0

9801



9801-0-15-XX-23-XX-10-0
Solder mount in .102 min. mounting hole
Also available on 16mm wide carrier tape: 1,200 parts per 13" reel.
Order as: 9801-0-57-XX-23-XX-10-0

8829



8829-0-15-XX-23-XX-10-0
Solder mount in .102 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- 80 200μ" TIN OVER NICKEL (RoHS)
- 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

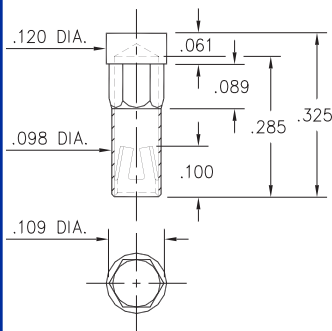
#13 or #23 CONTACT (DATA ON PAGES 224 & 225)



PIN RECEPTACLES
for .048" - .064" diameter pins (#13 contact)
for .045" - .065" diameter pins (#23 contact)

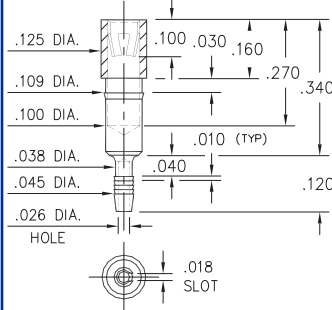


8365



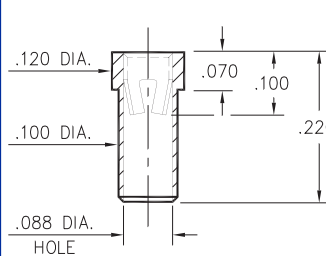
8365-0-15-XX-13-XX-10-0
Hex-pressfit in .106 plated thru hole.

8996



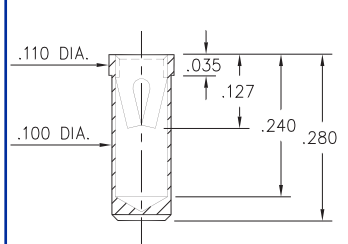
8996-0-31-XX-13-XX-04-0
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

9064



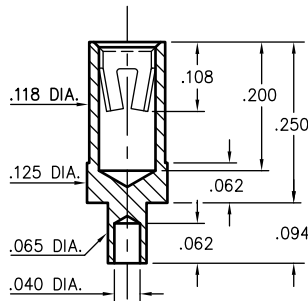
9064-0-15-XX-13-XX-10-0
Solder mount in .102 min. mounting hole

9280



9280-0-15-XX-13-XX-10-0
Solder mount in .102 min. mounting hole

4900



4900-0-19-XX-23-XX-10-0
Swage mount in .067 hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES

TOLERANCES ON:

LENGTHS: ±.005

DIAMETERS: ±.002

ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#13 or #23 CONTACT (DATA ON PAGES 224 & 225)

0394 0394-0-15-XX-07-XX-10-0 Solder mount in .120 min. mounting hole	0393 0393-0-15-XX-07-XX-10-0 Solder mount in .144 min. mounting hole	0391 0391-0-15-XX-07-XX-10-0 Solder mount in .159 min. mounting hole	9016 9016-0-15-XX-07-XX-10-0 Press-fit in .131 mounting hole
0493 0493-0-15-XX-07-XX-10-0 Press-fit in .144 mounting hole	0490 0490-0-15-XX-07-XX-04-0 Press-fit in .144 mounting hole	0616 0616-0-18-XX-07-XX-10-0 Press-fit in .144 mounting hole	0387 0387-0-15-XX-07-XX-04-0 Solder mount in .063 min. mounting hole
0370 0370-0-19-XX-07-XX-10-0 #18 Gage crimp barrel	4040 4040-0-19-XX-07-XX-10-0 Wire Termination	0491 0491-0-19-XX-07-XX-04-0 For use in stackable patch cords	9214 9214-0-15-XX-07-XX-10-0 Solder mount in .083 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 1X - XX - 07 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



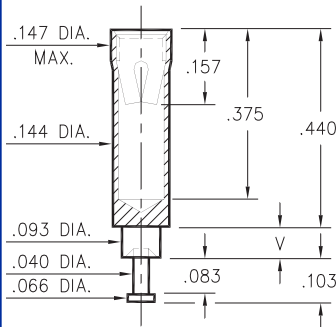
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#07 CONTACT (DATA ON PAGE 222)

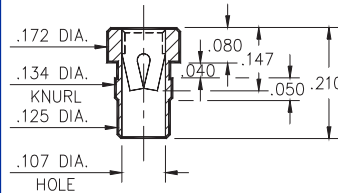
0395



0395-X-15-XX-07-XX-10-0
Swage mount in .096 hole

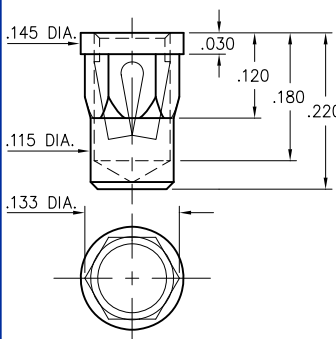
Basic Part Number	Board Thickness	Length V
0395-1	.031	.062
0395-2	.062	.094
0395-3	.094	.125
0395-4	.125	.156
0395-5	.188	.219

8016



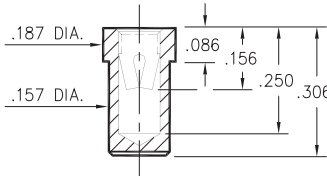
8016-0-15-XX-07-XX-10-0
Press-fit in .131 mounting hole

0350



0350-0-15-XX-07-XX-10-0
Hex press-fit in .129±.002 plated thru hole

8837



8837-0-15-XX-14-XX-10-0
Solder mount in .159 min. mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 15 - XX - XX - XX - 10 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



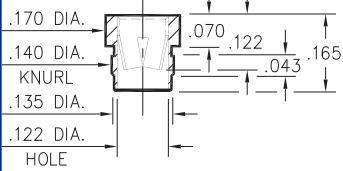
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

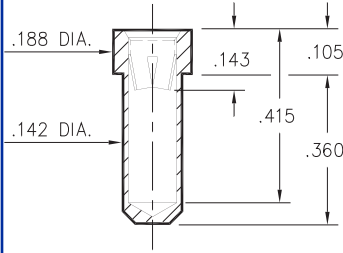
#07 or #14 CONTACT (DATA ON PAGES 225 & 226)

0388



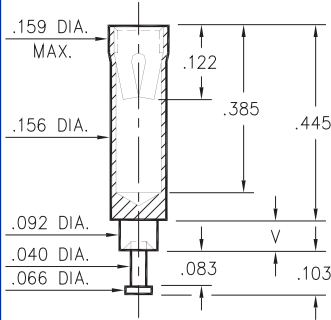
0388-0-15-XX-08-XX-10-0
Press-fit in .138 mounting hole

0390



0390-0-15-XX-08-XX-10-0
Solder mount in .144 min. mounting hole

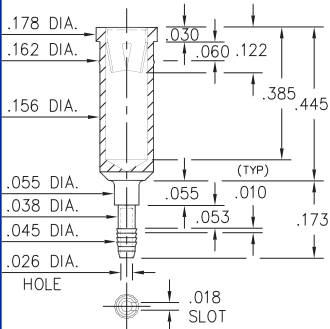
0389



0389-X-15-XX-08-XX-10-0
Swage mount in .094 hole

Basic Part Number	Board Thickness	Length V
0389-2	.062	.094
0389-3	.094	.125
0389-4	.125	.156

8963



8963-0-31-XX-08-XX-04-0
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 08 - XX - XX - 0

BASIC PART #

SPECIFY SHELL FINISH:
01 200μ" TIN/LEAD OVER NICKEL
◇ 80 200μ" TIN OVER NICKEL (RoHS)
◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:
01 200μ" TIN/LEAD OVER NICKEL
◇ 80 200μ" TIN OVER NICKEL (RoHS)
◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

#08 CONTACT (DATA ON PAGE 226)



PIN RECEPTACLES

With Organic Fibre Plug® Solder Barrier
(see specific contact range on pages 216, 217, 218 & 221)

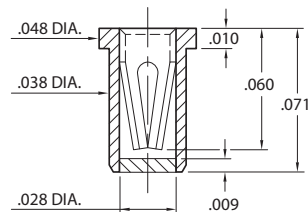


- These through-hole (tubular) receptacles are designed for hand, wave or reflow* soldering. The **ORGANIC FIBRE PLUG®** barrier prevents solder, paste or flux from contaminating the spring contact.
- After soldering, the **OFP®** barrier is pushed out of the receptacle when the device is plugged in.
- All parts are available as discrete receptacles; but for SMT assembly, certain receptacles are supplied on carrier tape per EIA-481 to feed industry standard pick and place machines.

Intrusive reflow (also called "pin-in-paste") is a technique of using conventional through-hole components in a reflow soldering process. The receptacles are placed into plated through-holes in the circuit board (solder paste has previously been screen printed on pads adjacent to the holes) and the board is reflowed in the same pass as other SMT components. Solder will fill the plated through-holes and achieve solder joints as reliable as wave soldering. The **OFP® barrier prevents solder paste from being picked-up inside the contact during pick 'n place assembly. "Overprinting" paste on the solder mask can be used to adjust the volume of paste required to fill each hole.*

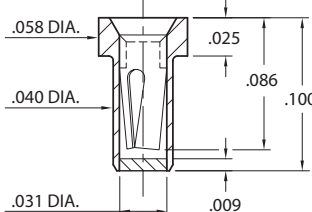


5359



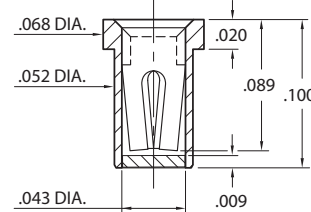
5359-0-XX-XX-10-XX-10-0
Solder mount in $\varnothing.043 \pm .003$ PTH.
#10 Contact for $\varnothing.012-.017$ pins.
Also available on 16mm wide carrier tape: 3,000 parts per 13" reel.

0577



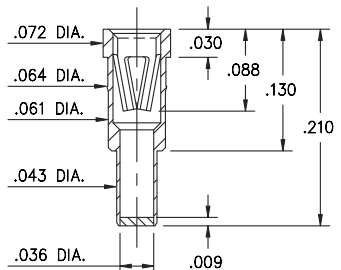
0577-0-XX-XX-21-XX-10-0
Solder mount in $\varnothing.045 \pm .003$ PTH.
#21 Contact for $\varnothing.015-.022$ pins.
Also available on 12mm wide carrier tape: 3,000 parts per 13" reel.

4015



4015-0-XX-XX-30-XX-10-0
Solder mount in $\varnothing.057 \pm .003$ PTH.
#30 Contact for $\varnothing.015-.025$ pins.
Also available on 8mm wide carrier tape: 5,500 parts per 13" reel.

3435



3435-0-XX-XX-47-XX-04-0
Solder mount in $\varnothing.046 \pm .003$ PTH.
#47 Contact for $\varnothing.025-.036$ and .025" square pins.

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard
CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT
SOLDER BARRIER:
Organic Fibre Plug®
DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0

BASIC PART

SPECIFY PACKAGING:
43 Discrete Receptacles
67 Supplied on 13" Reels

SPECIFY SHELL FINISH:

01 200 μ " TIN/LEAD OVER NICKEL
◇ 80 200 μ " TIN OVER NICKEL (RoHS)

CONTACT

#10, #21, #30 or #47 CONTACT (DATA ON PAGES 216, 217, 218 & 221)

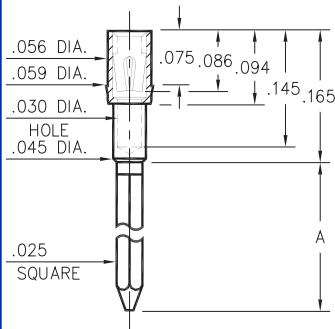
SPECIFY CONTACT FINISH:

◇ 27 30 μ " GOLD OVER NICKEL (RoHS)
02 100 μ " TIN/LEAD OVER NICKEL
◇ 84 100 μ " TIN OVER NICKEL (RoHS)



4280	5280	0479	
4280-0-XX-XX-16-XX-10-0 Solder mount in $\varnothing.067 \pm .003$ PTH. #16 Contact for $\varnothing.022-.034$ pins. Also available on 8mm wide carrier tape: 6,000 parts per 13" reel.	5280-0-XX-XX-16-XX-40-0 Solder mount in $\varnothing.067 \pm .003$ PTH. #16 Contact for $\varnothing.022-.034$ pins. Also available on 16mm wide carrier tape: 2,200 parts per 13" reel.	0479-0-XX-XX-34-XX-10-0 Solder mount in $\varnothing.077 \pm .003$ PTH. #34 Contact for $\varnothing.032-.046$ pins. Also available on 16mm wide carrier tape: 2,000 parts per 13" reel.	
9873	5364	5291	
9873-0-XX-XX-02-XX-10-0 Solder mount in $\varnothing.083 \pm .003$ PTH. #02 Contact for $\varnothing.040-.050$ pins. Also available on 12mm wide carrier tape: 4,500 parts per 13" reel.	5364-0-XX-XX-23-XX-10-0 Solder mount in $\varnothing.103 \pm .003$ PTH. #23 Contact for $\varnothing.045-.065$ pins. Also available on 12mm wide carrier tape: 2,000 parts per 13" reel.	5291-0-XX-XX-08-XX-40-0 Solder mount in $\varnothing.139 \pm .003$ PTH. #08 Contact for $\varnothing.084-.102$ pins. Also available on 16mm wide carrier tape: 1,700 parts per 13" reel.	
SPECIFICATIONS SHELL MATERIAL: Brass Alloy 360, 1/2 Hard CONTACT MATERIAL: Beryllium Copper Alloy 172, HT SOLDER BARRIER: Organic Fibre Plug® DIMENSION IN INCHES TOLERANCES ON: LENGTHS: $\pm .005$ DIAMETERS: $\pm .002$ ANGLES: $\pm 2^\circ$ ORDER CODE: XXXX - 0 - XX - XX - XX - XX - XX - 0 BASIC PART # → SPECIFY PACKAGING: → 43 Discrete Receptacles 67 Supplied on 13" Reels SPECIFY SHELL FINISH: → 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) SPECIFY CONTACT FINISH: → ◇ 27 30μ" GOLD OVER NICKEL (RoHS) 02 100μ" TIN/LEAD OVER NICKEL ◇ 84 100μ" TIN OVER NICKEL (RoHS) CONTACT #02, #08, #16, #23 or #34 CONTACT (DATA ON PAGES 221 - 226)			

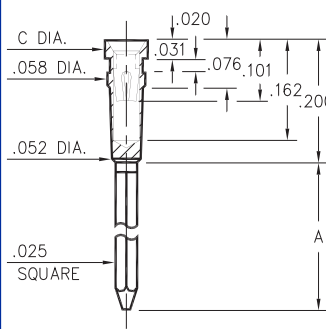
1702/1703



Basic Part Number	# of Wraps	Length A
1702-2	2	.370
1703-3	3	.510

170X-X-17-XX-30-XX-02-0
Press-fit in .057 mounting hole

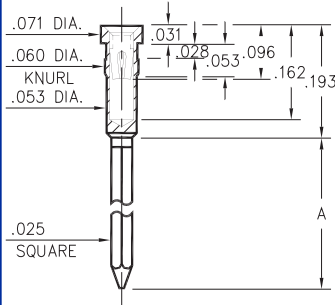
0038⇒0040/0066⇒0068



Basic Part #	# of Wraps	Length A	Dia. C
0040-1	1	.260	.072
0039-2	2	.360	
0038-3	3	.500	
0068-1	1	.260	
0067-2	2	.360	.062
0066-3	3	.500	

00XX-X-17-XX-30-XX-02-0
Press-fit in .055 mounting hole

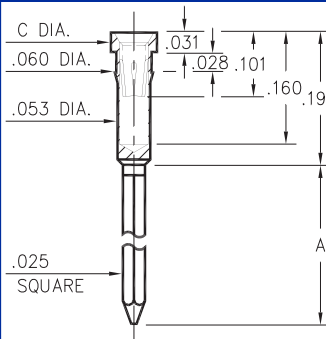
0086/0088/0089



Basic Part Number	# of Wraps	Length A
0089-2	2	.370
0088-3	3	.510
0086-4	4	.630

008X-X-17-XX-3X-XX-02-0
Press-fit in .057 mounting hole

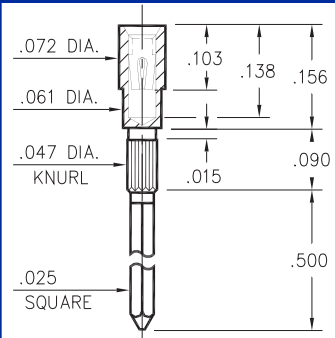
1030⇒1036



Basic Part #	# of Wraps	Length A	Dia. C
1032-1	1	.260	.072
1031-2	2	.360	
1030-3	3	.510	
1036-1	1	.260	
1035-2	2	.360	.062
1034-3	3	.510	

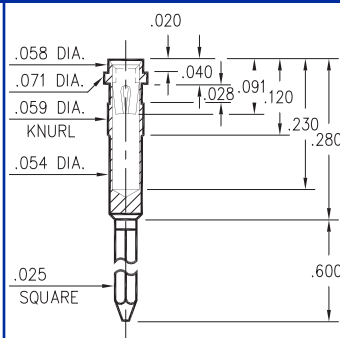
103X-X-17-XX-3X-XX-02-0
Press-fit in .057 mounting hole

1045



1045-3-17-XX-30-XX-02-0
Press-fit in .043 mounting hole

1040



1040-3-17-XX-30-XX-02-0
Press-fit in .056 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



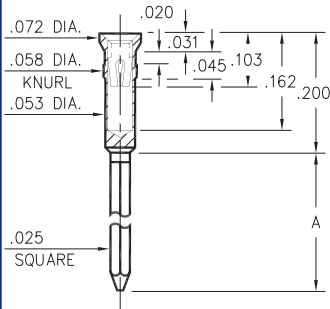
SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#30 or #32 CONTACT (DATA ON PAGES 218 & 219)

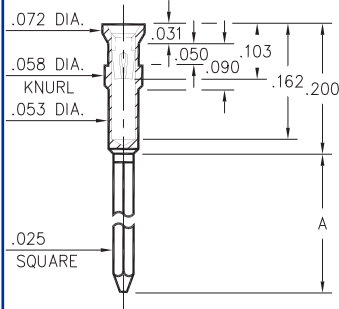
0444



Basic Part Number	# of Wraps	Length A
0444-1	1	.260
0444-2	2	.370
0444-3	3	.505

0444-X-17-XX-30-XX-02-0
Press-fit in .056 mounting hole

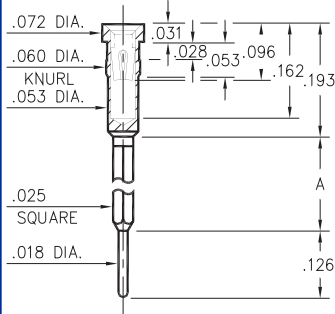
0445



Basic Part Number	# of Wraps	Length A
0445-3	3	.505

044X-X-17-XX-30-XX-02-0
Press-fit in .056 mounting hole

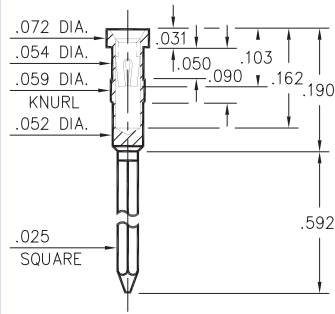
2601⇒2603



Basic Part Number	# of Wraps	Length A
2601-0	1	.232
2602-0	2	.350
2603-0	3	.468

260X-X-17-XX-30-XX-02-0
Press-fit in .057 mounting hole

1047



1047-3-17-XX-30-XX-02-0
Press-fit in .056 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: **XXXX - X - 17 - XX - 30 - XX - 02 - 0**

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 02 100μ" TIN/LEAD OVER NICKEL
- ◇ 84 100μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

CONTACT

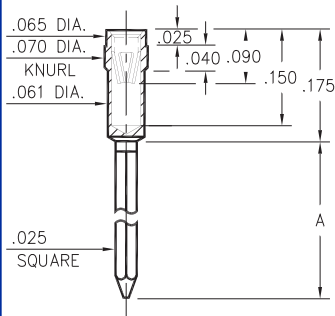
#30 CONTACT (DATA ON PAGE 218)



WRAPOST RECEPTACLES
for .022" - .032" diameter pins (#06 contact)
and .022" - .034" diameter pins (#16 contact)



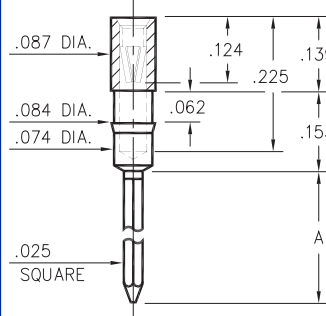
2297



2297-X-17-XX-16-XX-02-0
Press-fit in .067 mounting hole

Basic Part Number	# of Wraps	Length A
2297-2	2	.370
2297-3	3	.430

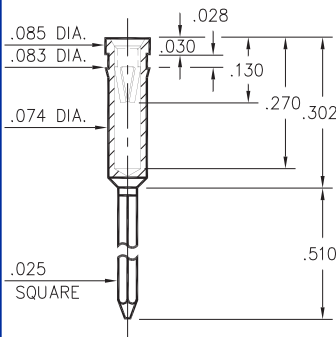
0280



0280-X-17-XX-06-XX-02-0
Press-fit in .081 mounting hole

Basic Part Number	# of Wraps	Length A
0280-2	2	.360
0280-3	3	.510

0281



0281-3-17-XX-06-XX-02-0
Press-fit in .080 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 17 - XX - XX - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



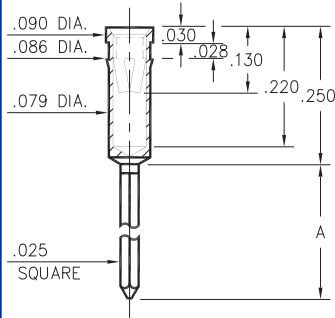
SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

SELECT CONTACT

#06 or #16 CONTACT (DATA ON PAGES 220 & 221)

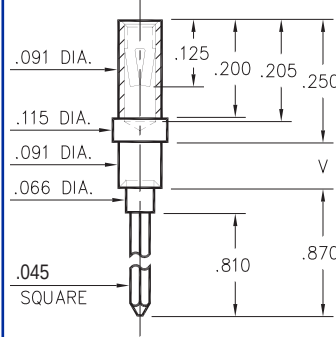
1052/1053



Basic Part Number	# of Wraps	Length A
1053-2	2	.360
1052-3	3	.515

105X-X-17-XX-34-XX-02-0
Press-fit in .083 mounting hole

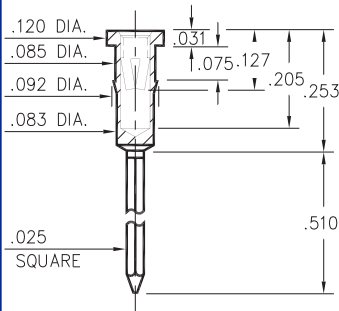
0383



Basic Part Number	Board Thickness	Length V
0383-1	.062	.094
0383-2	.094	.125
0383-3	.125	.156

0383-X-17-XX-34-XX-02-0
Swage mount in .094 hole

0382



0382-3-17-XX-34-XX-02-0
Press-fit in .089 mounting hole

SPECIFICATIONS

SHELL MATERIAL:
Brass Alloy 360, 1/2 Hard

CONTACT MATERIAL:
Beryllium Copper Alloy 172, HT

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 17 - XX - 34 - XX - 02 - 0

BASIC PART #

SPECIFY SHELL FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)



SPECIFY CONTACT FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 27 30μ" GOLD OVER NICKEL (RoHS)

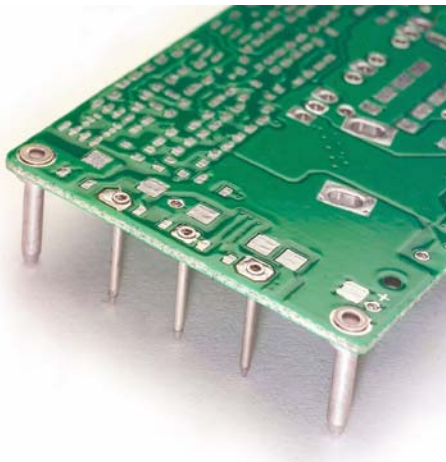
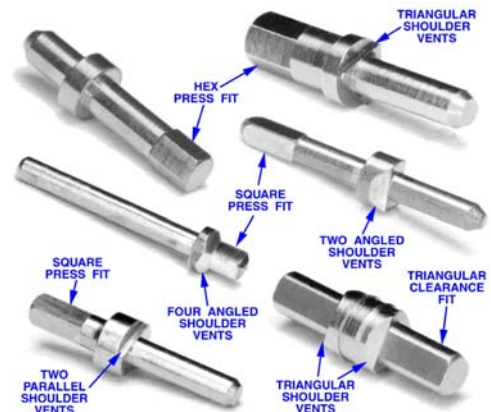
CONTACT

#34 CONTACT (DATA ON PAGE 222)

THE BASIC PIN

Mill-Max printed circuit pins are machined individual pins used for various plug-in applications and are functionally the dynamic building blocks within an interconnect system. Turret, slotted, wrapost and pin types are available. They are commonly fastened to printed circuit boards by being press-fit, swaged (riveted) or soldered.

PCB pins serve not only as a conductive path for an electrical circuit, but provide strength to an assembly module as a mechanical interface. Mill-Max Mfg. Corp. has developed thousands of state-of-the-art “basic pin” designs, featuring pin barrel geometries for our customers who require outside-the-box solutions to their interconnect needs.



In addition to the products found on the following pages Mill-Max offers the following stock materials and diameters available for manufacture:

BRASS Alloy 360, 1/2 hard: .062/.072/.078/.093/.125/.156/.187/.250 diameters

BRASS Alloy 360, 1/4 hard: .072/.078 diameters

BRASS TUBING: .072 O.D.x.020 I.D./ .072 O.D.x.025 I.D.

PHOSPHOR BRONZE Alloy 544: .062/.072/.078 diameters

TELLURIUM COPPER Alloy 145: .079/.093/.125/.156 diameters

Mill-Max will gladly quote application specific products. Please complete the specification sheet on page 213 or send us your own drawings. We assure you a fast response.

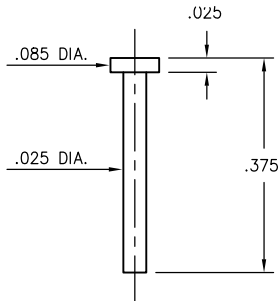


4184	9050	4353	9083
4184-0-00-XX-00-00-33-0 Solder mount in .014 mounting hole	9050-0-00-XX-00-00-33-0 Solder mount in .016 mounting hole	4353-0-00-XX-00-00-33-0 Solder mount in .016 mounting hole	9083-0-00-XX-00-00-38-0 Solder mount in .016 mounting hole
4825	4689	4361	4288
4825-0-00-XX-00-00-33-0 Solder mount in .019 mounting hole	4689-0-00-XX-00-00-33-0 Solder mount in .019 mounting hole	4361-0-00-XX-00-00-33-0 Solder mount in .022 mounting hole	4288-0-00-XX-00-00-33-0 Solder mount in .022 mounting hole
4068	9113	9137	5137
4068-0-00-XX-00-00-33-0 Solder mount in .022 mounting hole	9113-0-00-XX-00-00-38-0 Solder mount in .022 mounting hole	9137-0-00-XX-00-00-38-0 Solder mount in .022 mounting hole	5137-0-00-XX-00-00-38-0 Solder mount in .022 mounting hole
SPECIFICATIONS PIN MATERIAL: Brass Alloy 360, 1/2 Hard (Except where noted) DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2°	ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0 BASIC PART # SPECIFY PIN FINISH: 01 200μ" TIN/LEAD OVER NICKEL ◇ 80 200μ" TIN OVER NICKEL (RoHS) ◇ 15 10μ" GOLD OVER NICKEL (RoHS) ◇ 21 20μ" GOLD OVER NICKEL (RoHS) ◇ 34 50μ" GOLD OVER NICKEL (RoHS)		

4209	5063	4965	6547
4209-0-00-XX-00-00-33-0 Solder mount in .022 mounting hole	5063-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole	4965-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole	6547-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole
4071	8808	4964	9185
4071-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole	8808-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole	4964-0-00-XX-00-00-33-0 Solder mount in .024 mounting hole	9185-0-00-XX-00-00-33-0 Solder mount in .026 mounting hole
8257	5035	5240	2650
8257-0-00-XX-00-00-33-0 Solder mount in .026 mounting hole	5035-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole	5240-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole	2650-0-00-XX-00-00-33-0 Solder mount in .029 mounting hole
SPECIFICATIONS PIN MATERIAL: Brass Alloy 360, 1/2 Hard (Except where noted) DIMENSION IN INCHES TOLERANCES ON: LENGTHS: ±.005 DIAMETERS: ±.002 ANGLES: ± 2° ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 33 - 0 BASIC PART # SPECIFY PIN FINISH: 01 200μ" TIN/LEAD OVER NICKEL 80 200μ" TIN OVER NICKEL (RoHS) 15 10μ" GOLD OVER NICKEL (RoHS) 21 20μ" GOLD OVER NICKEL (RoHS) 34 50μ" GOLD OVER NICKEL (RoHS)			

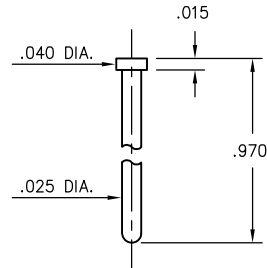


5062



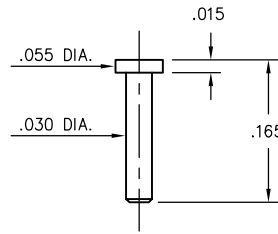
5062-0-00-XX-00-00-33-0
Solder mount in .029 mounting hole

8451



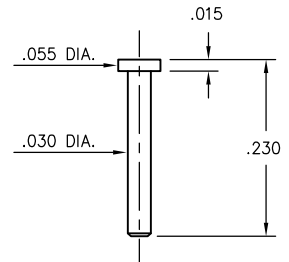
8451-0-00-XX-00-00-33-0
Solder mount in .029 mounting hole

6477



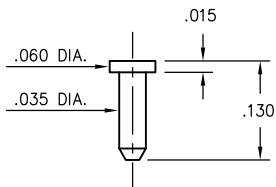
6477-0-00-XX-00-00-38-0
Solder mount in .034 mounting hole

4477



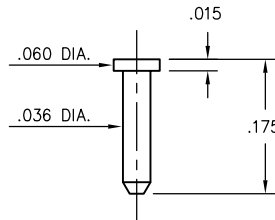
4477-0-00-XX-00-00-33-0
Solder mount in .034 mounting hole

4268



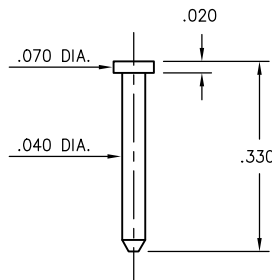
4268-0-00-XX-00-00-33-0
Solder mount in .039 mounting hole

9086



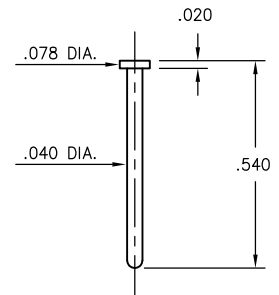
9086-0-00-XX-00-00-33-0
Solder mount in .040 mounting hole

8330



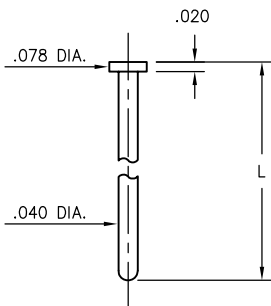
8330-0-00-XX-00-00-38-0
Solder mount in .044 mounting hole

9228



9228-0-00-XX-00-00-38-0
Solder mount in .044 mounting hole

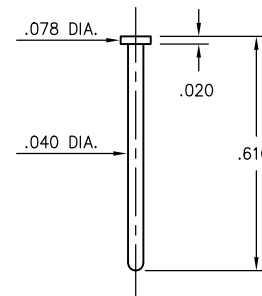
6095



6095-X-00-XX-00-00-38-0
Solder mount in .044 mounting hole

Basic Part Number	Pin Length L
6095-0	.580
6095-1	.475

6092



6092-0-00-XX-00-00-33-0
Solder mount in .044 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

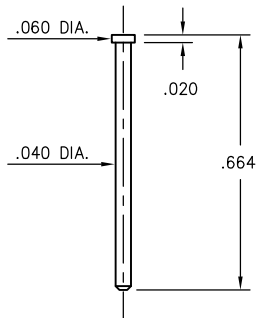
BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◇ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◇ 34 50 μ " GOLD OVER NICKEL (RoHS)

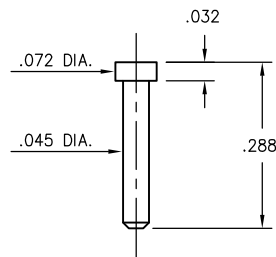


1179



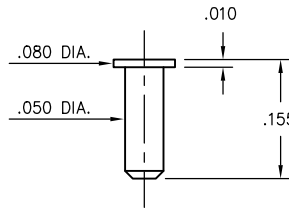
1179-0-00-XX-00-00-33-0
Solder mount in .044 mounting hole

9872



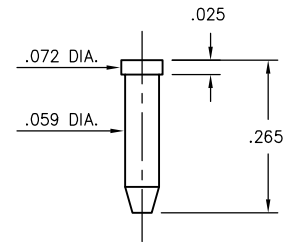
9872-0-00-XX-00-00-33-0
Solder mount in .049 mounting hole

2381



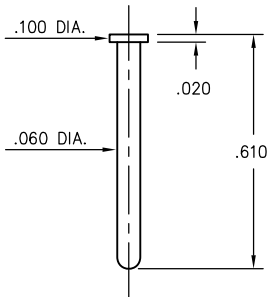
2381-0-00-XX-00-00-33-0
Solder mount in .054 mounting hole

9265



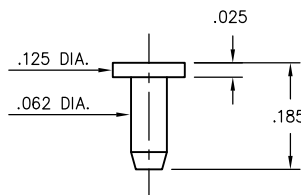
9265-0-00-XX-00-00-38-0
Solder mount in .063 mounting hole

6142



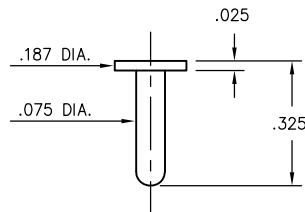
6142-0-00-XX-00-00-33-0
Solder mount in .064 mounting hole

9022



9022-0-00-XX-00-00-33-0
Solder mount in .066 mounting hole

8086



8086-0-00-XX-00-00-33-0
Solder mount in .079 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
 LENGTHS: $\pm .005$
 DIAMETERS: $\pm .002$
 ANGLES: $\pm 2^\circ$

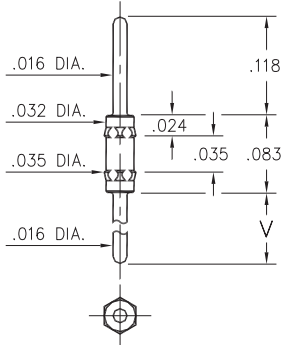
ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- ◇ **80** 200μ" TIN OVER NICKEL (RoHS)
 ◇ **15** 10μ" GOLD OVER NICKEL (RoHS)
 ◇ **21** 20μ" GOLD OVER NICKEL (RoHS)
 ◇ **34** 50μ" GOLD OVER NICKEL (RoHS)

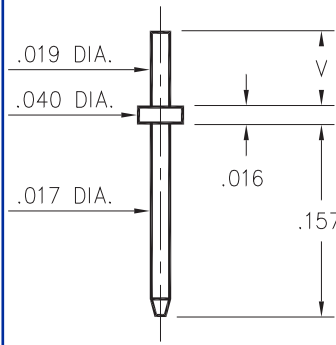
4006



Basic Part Number	Length V
4006-0	.118
4006-1	.188
4006-2	.288

4006-X-00-XX-00-00-03-0
Hex Press-fit in .034 mounting hole

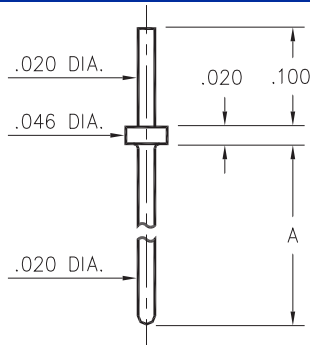
3121



Basic Part Number	Substrate Thickness	Length V
3121-1	.025	.061
3121-2	.040	.075

3121-X-00-XX-00-00-08-0
Solder mount in .023 mounting hole
Material is annealed.

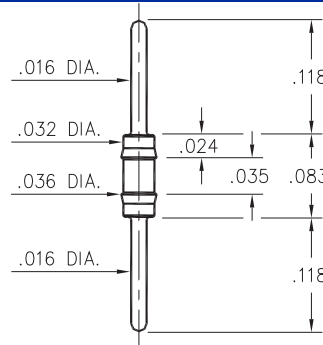
3128



Basic Part Number	Length A
3128-1	.250
3128-2	.425
3128-3	.525
3128-4	.550
3128-5	.930

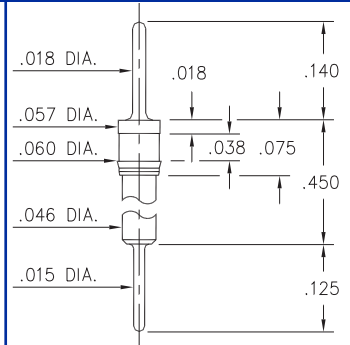
3128-X-00-XX-00-00-08-0
Solder mount in .024 min. mounting hole

3006



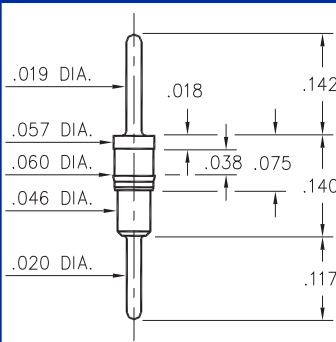
3006-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

8885



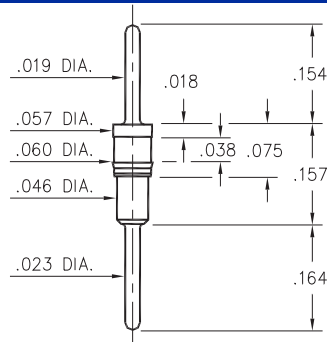
8885-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

6218



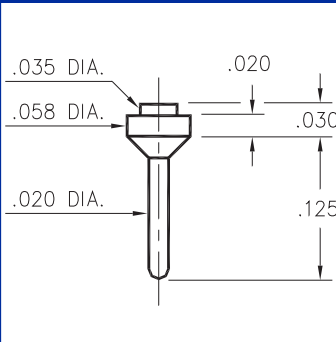
6218-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5012



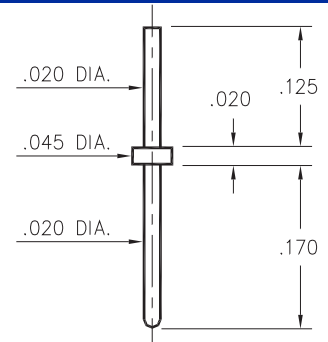
5012-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

0508



0508-0-00-XX-00-00-03-0
Surface Mount

9081



9081-0-00-XX-00-00-08-0
Solder mount in .024 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

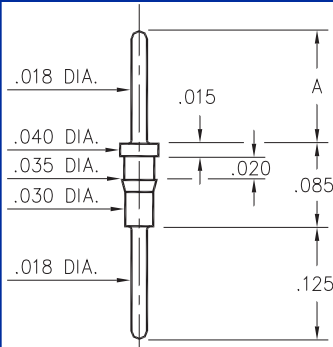
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



8685/9036

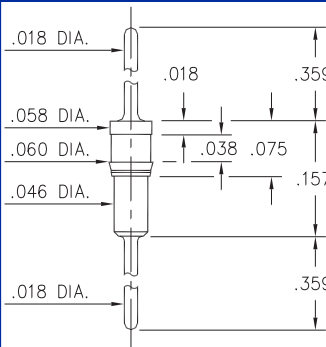


Basic Part Number	Length A
8685-0	.125
9036-0	.175

XXXX-0-00-XX-00-00-03-0

Press-fit in .033 mounting hole.
Pin material is Ph. Br. 544 (B2)

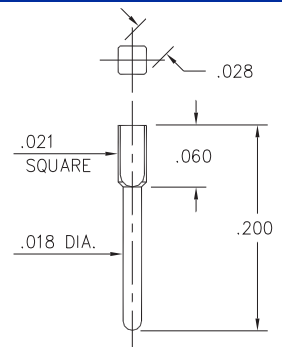
9051



9051-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

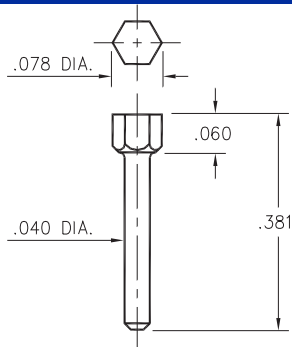
8969



8969-0-05-XX-00-00-03-0

Square press-fit in .023 plated thru hole (use .7 mm drill prior to plating)

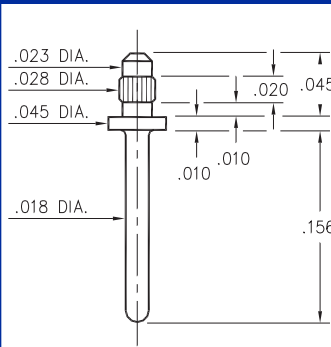
8979



8979-0-00-XX-00-00-03-0

Hex press-fit in .074 plated thru hole

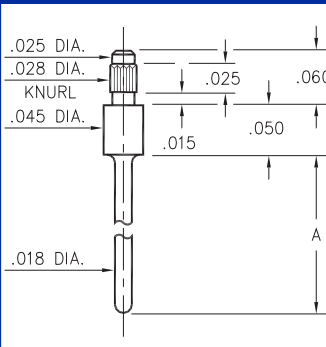
9159



9159-0-00-XX-00-00-03-0

Press-fit in .026 mounting hole

3155/5155

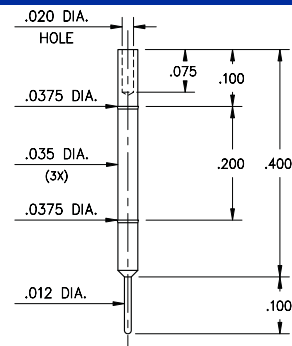


X155-0-00-XX-00-00-03-0

Press-fit in .026 mounting hole
Pin material is Ph. Br. 544 (B2)

Basic Part Number	Length A
3155-0	.180
5155-0	.130

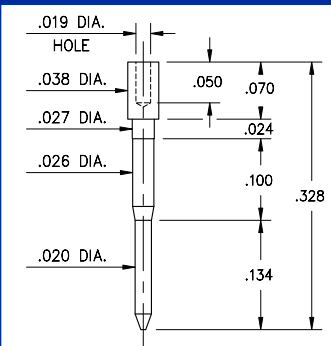
4194



4194-0-00-XX-00-00-08-0

Wire termination
Press-fit in .036 hole

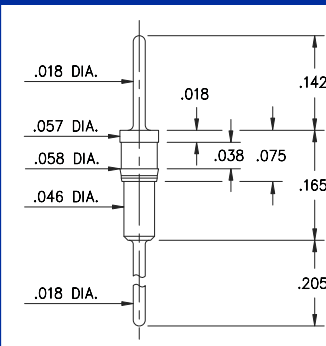
5556



5556-0-00-XX-00-00-38-0

Wire termination

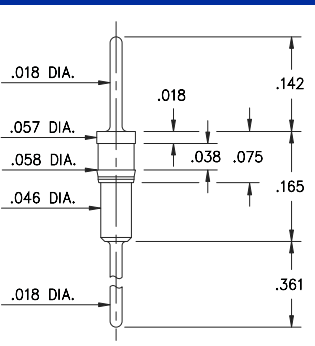
3790



3790-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

3796



3796-0-00-XX-00-00-03-0

Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

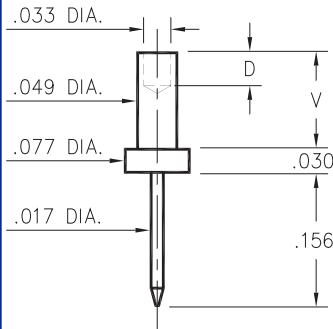
BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◇ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◇ 34 50 μ " GOLD OVER NICKEL (RoHS)



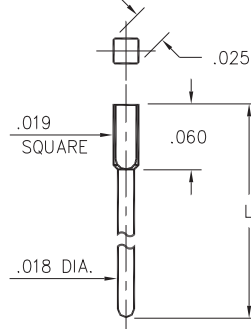
3116



Basic Part Number	Board Thickness	Length V	Length D
3116-1	.031	.051	.035
3116-2	.062	.082	.062
3116-3	.094	.113	.062
3116-4	.125	.145	.062

3116-X-00-XX-00-00-08-0
Swage mount in .052 hole

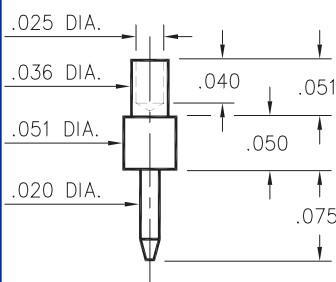
5435



Basic Part Number	Length L
5435-0	.303
5435-1	.200
5435-2	.413

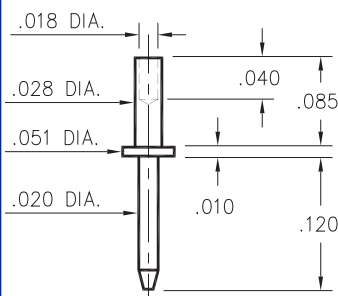
5435-X-05-XX-00-00-03-0
Square press-fit in .022 plated thru hole

3135



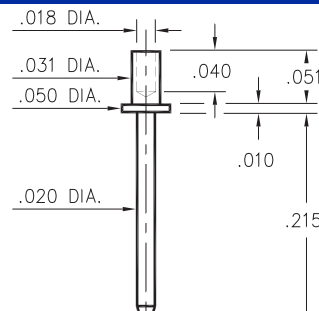
3135-1-00-XX-00-00-08-0
Swage mount in .040 hole.
For .031 thick board.

3210



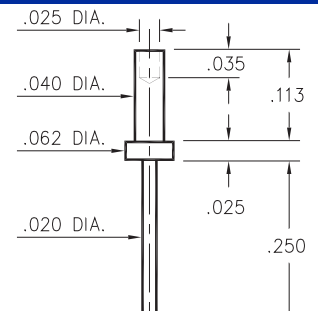
3210-2-00-XX-00-00-08-0
Swage mount in .031 hole.
For .062 thick board.

3129



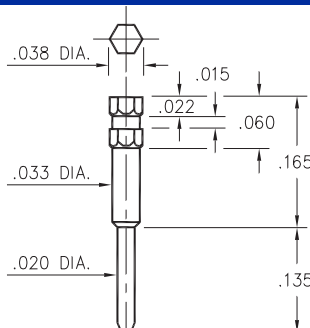
3129-1-00-XX-00-00-08-0
Swage mount in .035 hole.
For .031 thick board.

3147



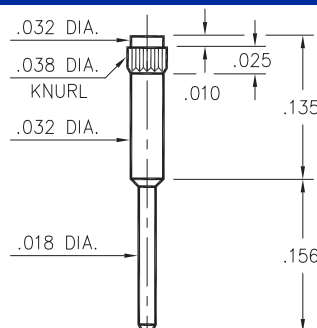
3147-3-00-XX-00-00-08-0
Swage mount in .043 hole.
For .094 thick board.

4366



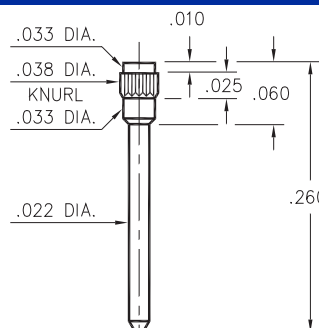
4366-0-00-XX-00-00-03-0
Hex press-fit in .034 plated thru hole

1267



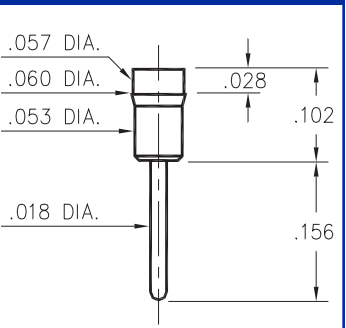
1267-0-00-XX-00-00-03-0
Press-fit in .035 mounting hole

7827



7827-0-00-XX-00-00-03-0
Press-fit in .035 mounting hole

1130



1130-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph Br. 544 (B2)

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

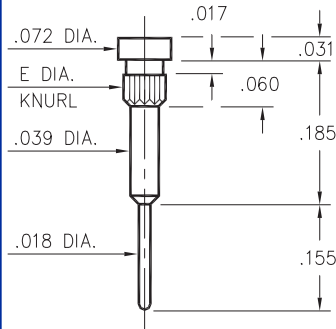
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



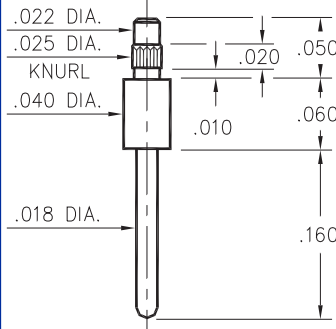
1067



Basic Part Number	Knurl Dia. E	Mounting Hole
1067-1	.058	.055
1067-2	.045	.042

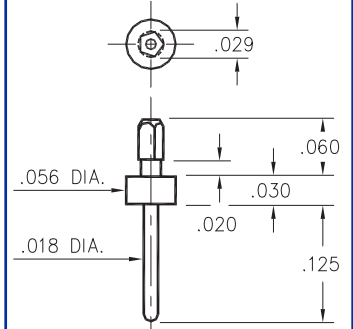
1067-X-00-XX-00-00-03-0
Press-fit in .042/.055 mounting hole

3158



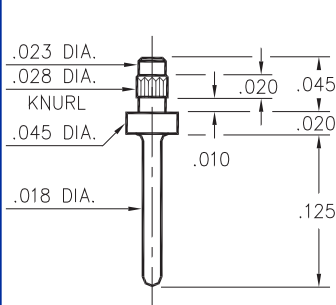
3158-0-00-XX-00-00-03-0
Press-fit in .023 mounting hole

9000



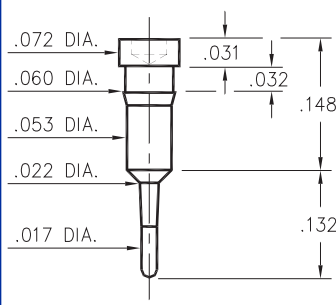
9000-0-00-XX-00-00-03-0
Pentagonal press-fit in .025 plated thru hole

3157



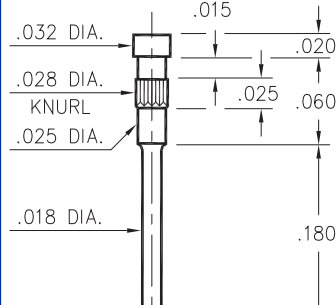
3157-0-00-XX-00-00-03-0
Press-fit in .026 mounting hole

0915



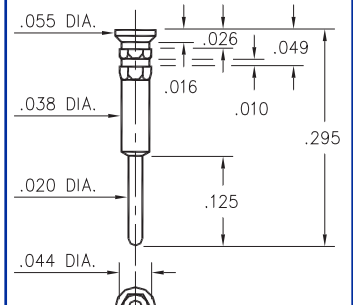
0915-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3154



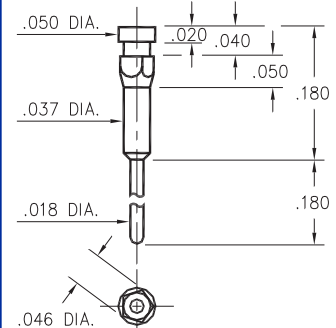
3154-0-00-XX-00-00-03-0
Press-fit in .026 mounting hole
Pin material is Ph Br 544 (B2)

0542



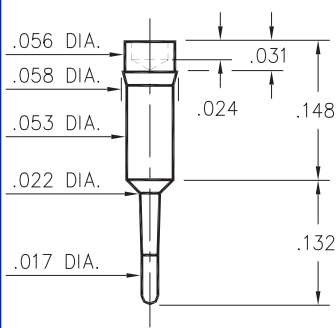
0542-0-00-XX-00-00-03-0
Hex press-fit in .039 plated thru hole

0522



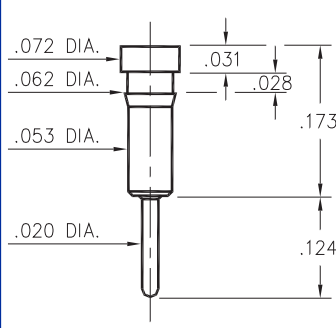
0522-0-00-XX-00-00-03-0
Pentagonal press-fit in .042 plated thru hole

0952



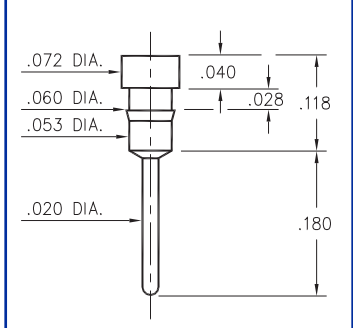
0952-0-00-XX-00-00-03-0
Press-fit in .056 mounting hole

0257



0257-0-00-XX-00-00-03-0
Press-fit in .059 mounting hole

8940



8940-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

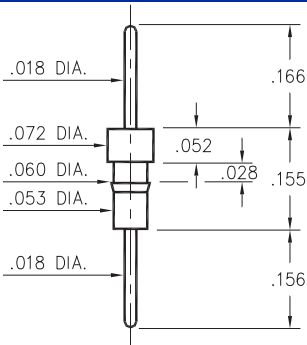
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



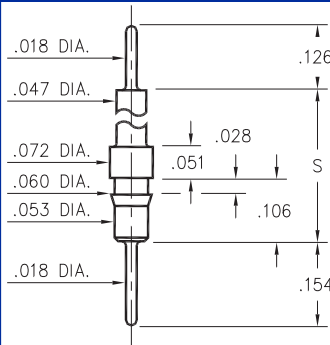
0504/0505



050X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

Basic Part Number	Pin Material
0504-0	Ph Br. 544
0505-0	Brass 360

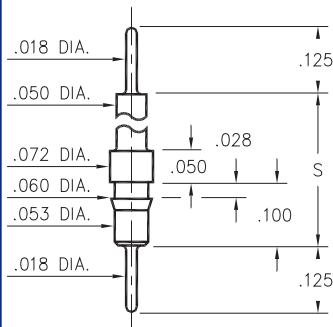
5510/5511



551X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

Basic Part Number	Standoff Height S
5510-0	.331
5511-0	.606

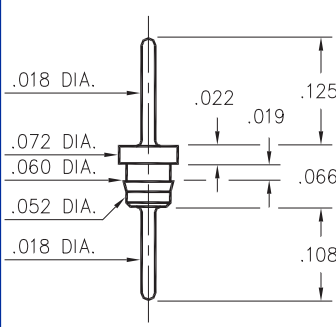
4259



4259-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

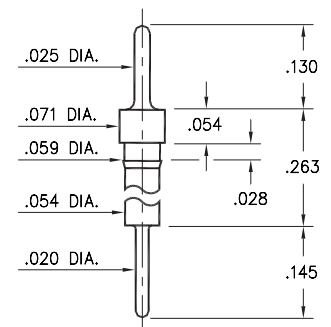
Basic Part Number	Standoff Height S
4259-1	.210
4259-2	.335
4259-3	.585
4259-4	.835

3516



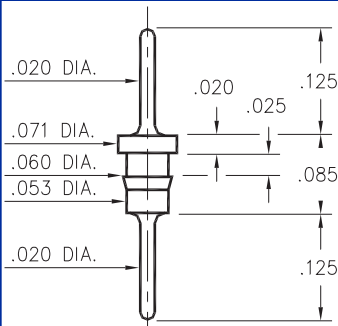
3516-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8859



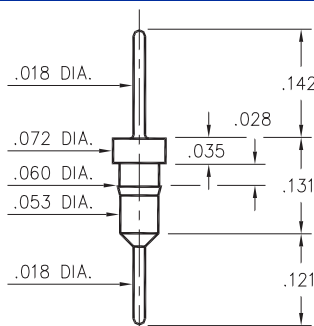
8859-0-00-XX-00-00-03-0
Press-fit in .056 mounting hole

6585



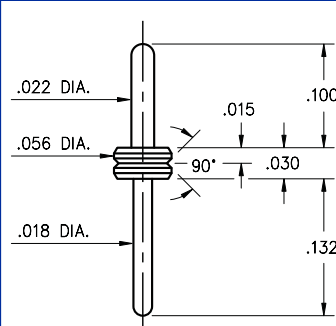
6585-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph Br 544 (B2)

3404



3404-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3169



3169-0-00-15-00-00-03-0
V-Groove Header Pin
Also available on Kapton Tape

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

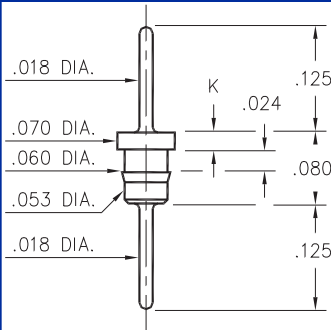
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



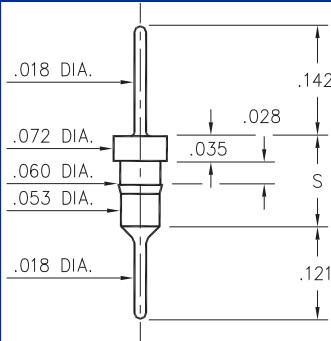
1752/6458



Basic Part Number	Length K
1752-0	.020
6458-0	.035

XXXX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

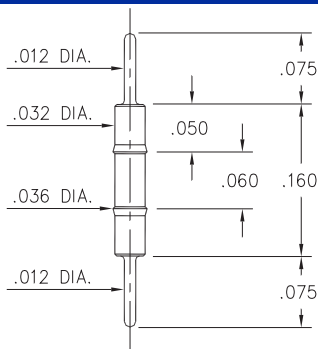
3413/8404



Basic Part Number	Length S
3413-0	.118
8404-0	.131

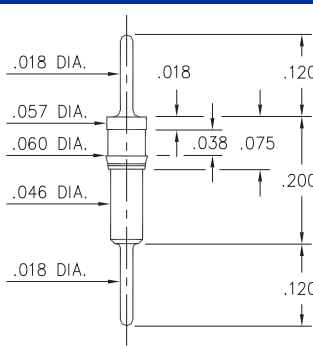
X4XX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

9075



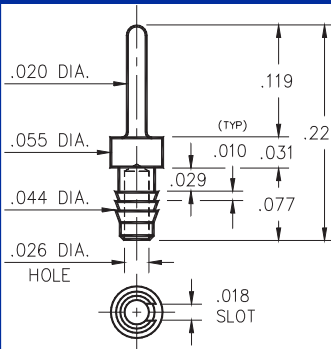
9075-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

9218



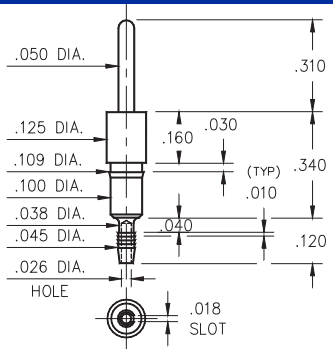
9218-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

2617



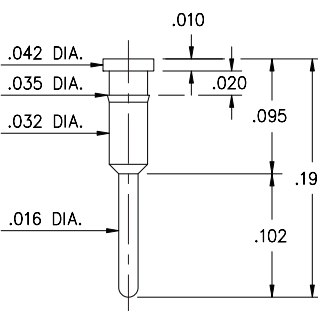
2617-0-01-XX-00-00-03-0
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

8995



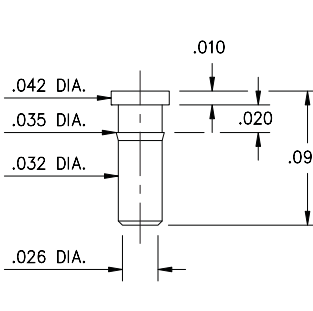
8995-0-01-XX-00-00-03-0
Compliant press-fit in .040 ±.003 hole. For .060 → .100 thick board

1933



1933-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

1935



1935-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - 03 - 0

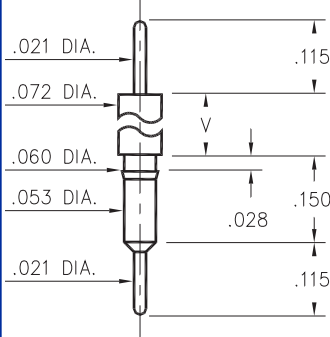
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



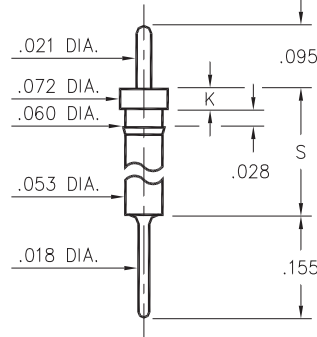
3406



Basic Part Number	Shoulder Height V
3406-0	.350

340X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

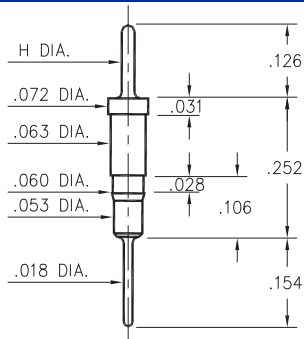
0315



Basic Part Number	Head Height K	Stand-off Height S
0315-0	.030	.190
0315-1	.040	.430

0315-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph Br 544 (B2)

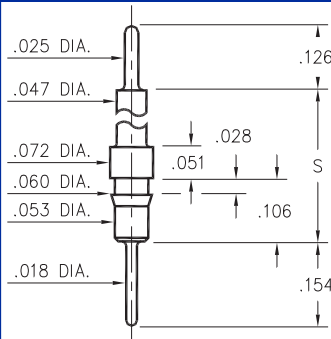
5503/5509



Basic Part Number	Pin Diameter H
5503-0	.025
5509-0	.018

550X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

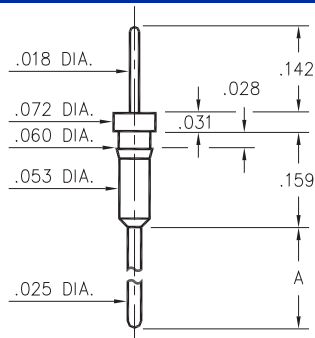
5504/5505



Basic Part Number	Standoff Height S
5504-0	.331
5505-0	.606

550X-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

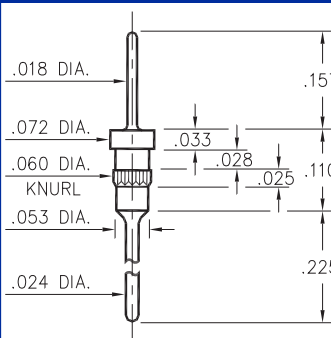
3409



Basic Part Number	Pin Length A
3409-1	.210
3409-2	.420

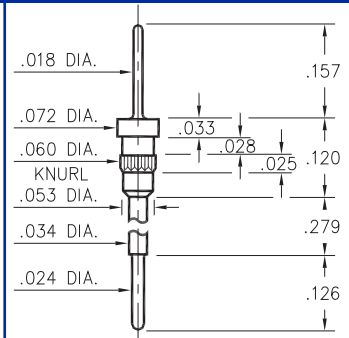
3409-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5011



5011-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5113



5113-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 03 - 0

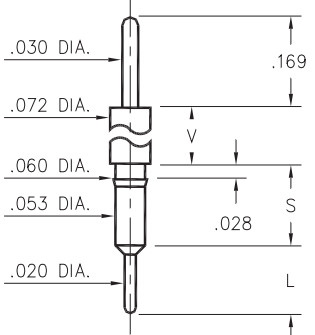
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



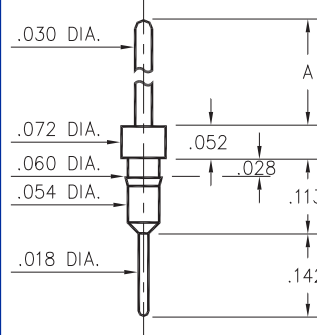
3400⇒3402/3405/3410



Basic Part Number	Shoulder Height V	Length S	Length L
3402-0	.052	.138	.115
3401-0	.100	.136	.115
3405-0	.169	.146	.115
3400-0	.481	.145	.115
3410-0	.934	.136	.124

34XX-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

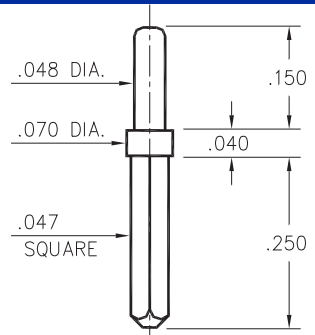
3411



Basic Part Number	Pin Length A
3411-0	.417
3411-1	.217

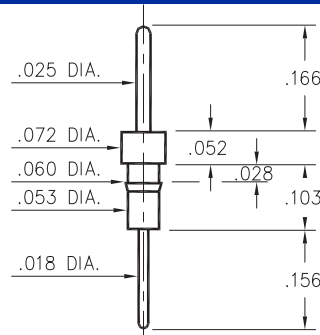
3411-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

0600



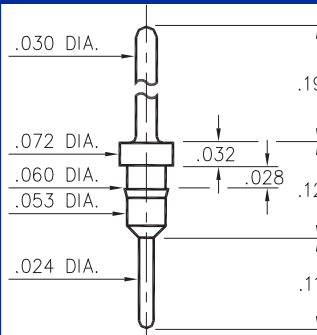
0600-0-05-XX-00-00-01-0
Solder mount in .052 mounting hole

0290



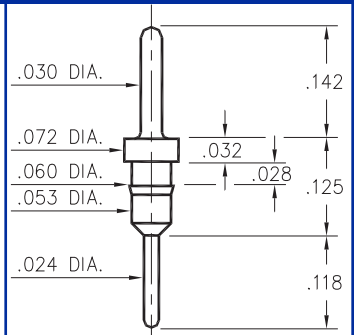
0290-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

7007



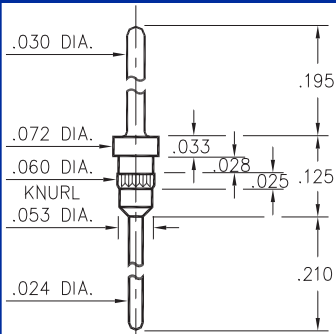
7007-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5016



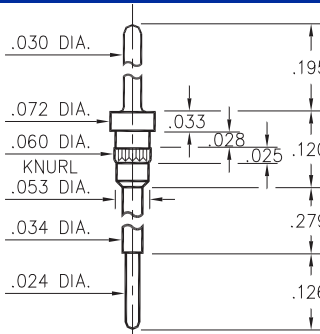
5016-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5005



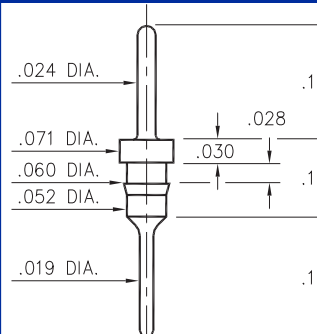
5005-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

5107



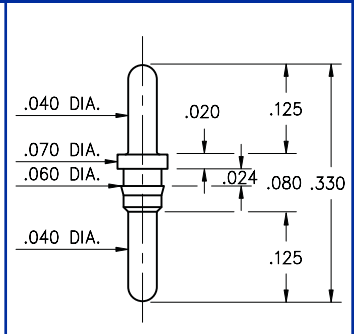
5107-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8919



8919-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3077



3077-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

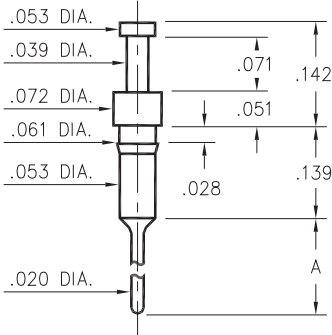
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



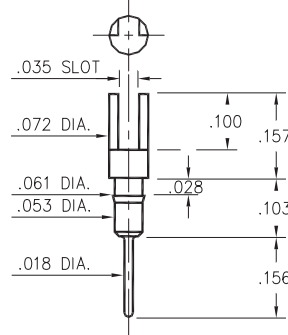
3408



Basic Part Number	Pin Length A
3408-1	.121
3408-2	.181

3408-X-00-XX-00-00-03-0
Press-fit in .057 mounting hole

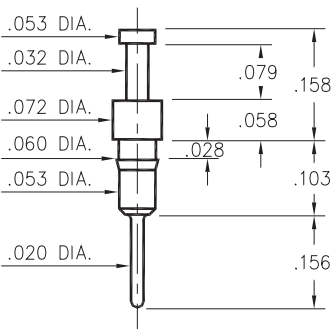
0270/0282



Basic Part Number	Pin Material
0270-0	Ph Br 544 (B2)
0282-0	Brass 360

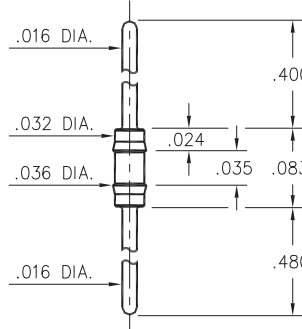
02XX-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

0700



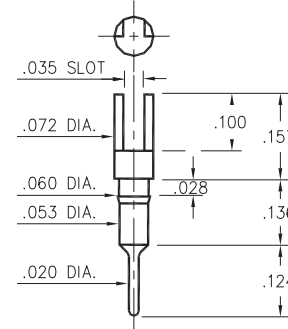
0700-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8006



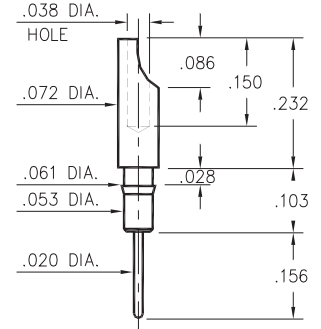
8006-0-00-XX-00-00-03-0
Press-fit in .034 mounting hole

0265



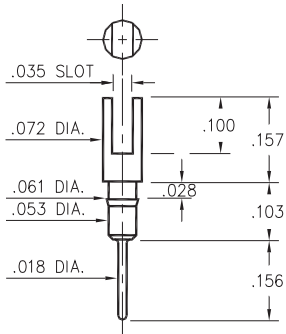
0265-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

0275



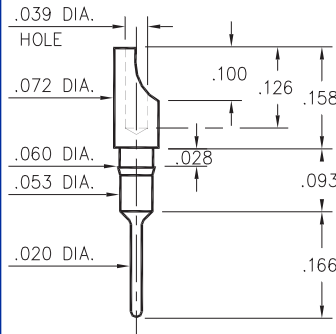
0275-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole
Pin material is Ph. Br. 544 (B2)

0272



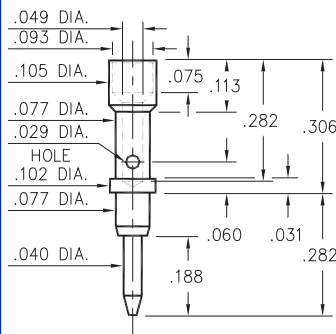
0272-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

8000



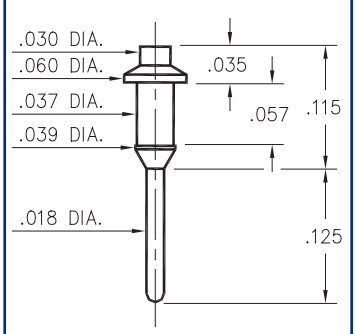
8000-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

3603



3603-0-07-XX-00-00-08-0
Annealed
#20 Crimp barrel

9976



9976-0-00-XX-00-00-03-0
Press-fit in .038 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except where noted)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

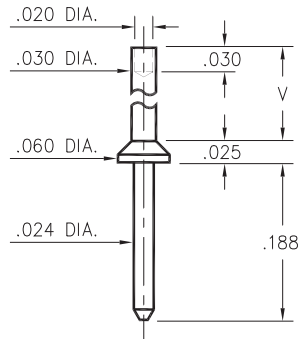
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



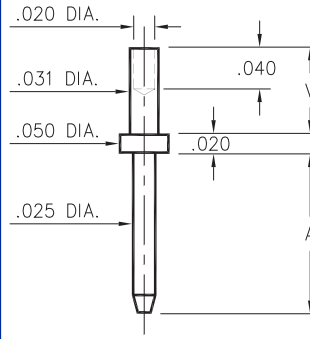
3117



Basic Part Number	Board Thickness	Length V
3117-1	.031	.047
3117-2	.062	.078
3117-3	.094	.110
3117-4	.125	.141

3117-X-00-XX-00-00-08-0
Swage mount in .035 hole

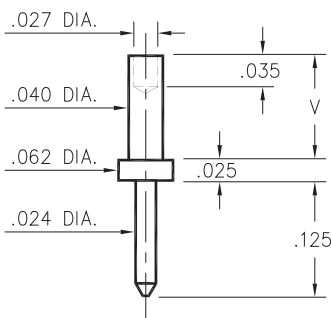
3114/3115



Basic Part Number	Board Thickness	Length A	Length V
3114-1	.031	.150	.051
3114-2	.062	.150	.082
3115-1	.031	.300	.051
3115-2	.062	.300	.082

311X-X-00-XX-00-00-08-0
Swage mount in .035 mounting hole

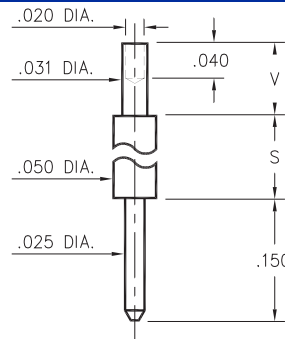
3112



Basic Part Number	Board Thickness	Length V
3112-1	.031	.051
3112-2	.062	.082
3112-3	.094	.113

3112-X-00-XX-00-00-08-0
Swage mount in .043 hole

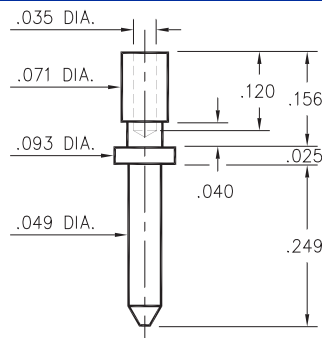
3118/3119



Basic Part Number	Board Thickness	Length S	Length V
3118-1	.031	.170	.051
3118-2	.062	.170	.082
3119-1	.031	.420	.051
3119-2	.062	.420	.082

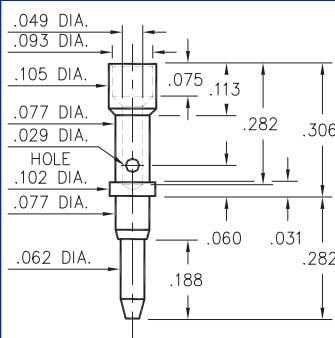
311X-X-00-XX-00-00-08-0
Swage mount in .035 hole

3139



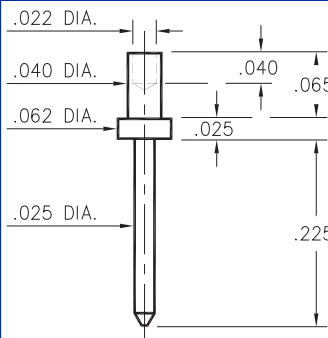
3139-0-00-XX-00-00-08-0
Wire Termination

3602



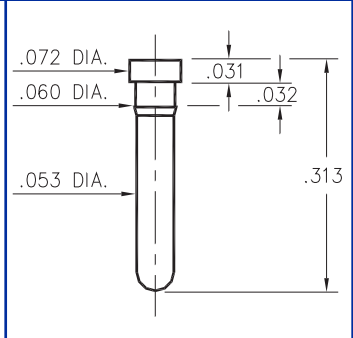
3602-0-07-XX-00-00-08-0
Annealed
#20 Crimp barrel

3131



3131-1-00-XX-00-00-08-0
Swage mount in .043 hole

0912



0912-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

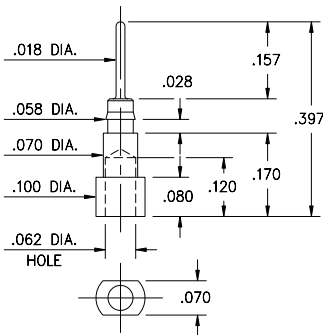
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)

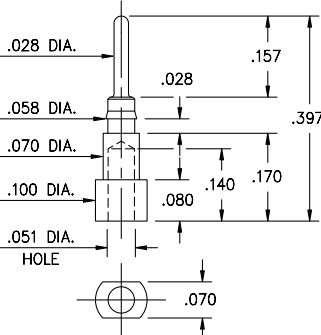


5102



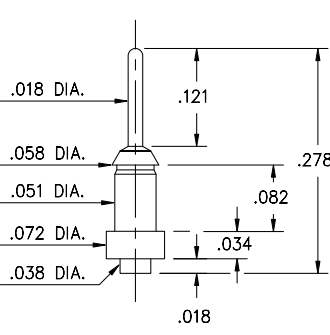
5102-0-00-XX-00-00-33-0
Press-fit in .057 mounting hole

1502



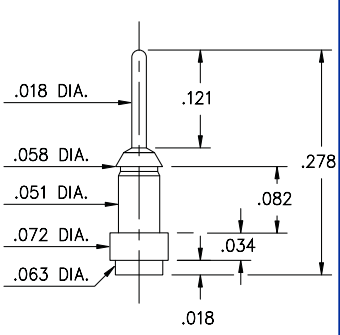
1502-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

2956-0



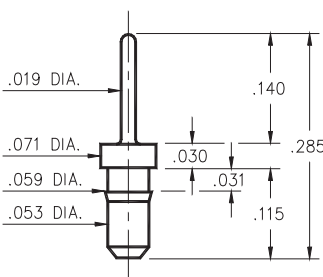
2956-0-00-XX-00-00-03-0
Surface mount

2956-1



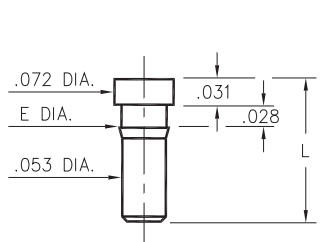
2956-1-00-XX-00-00-03-0
Surface mount

8876



8876-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

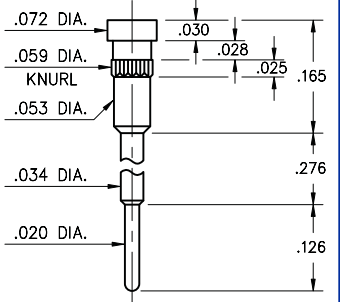
0259/0286/1941



02XX-0-00-XX-00-00-03-0
Press-fit in .057/.059 mounting hole

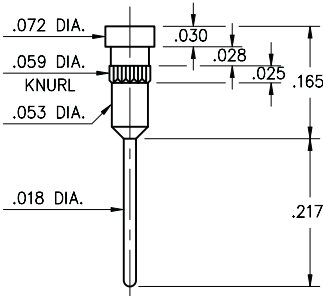
Basic Part Number	Length L	Barb Dia. E	Mounting Hole
0259-0	.173	.062	.059
0286-0	.115	.060	.057
1941-0	.169	.058	.057

1938



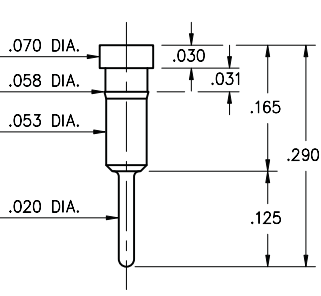
1938-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

1940



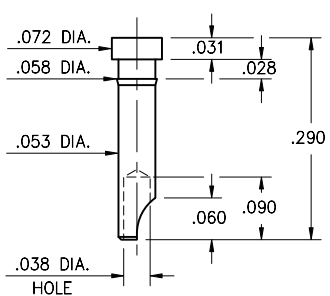
1940-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

1942



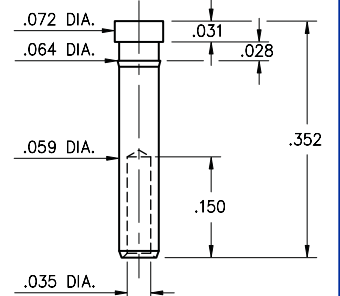
1942-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3024



3024-0-01-XX-00-00-03-0
Press-fit in .057 mounting hole

3000



3000-0-00-XX-00-00-03-0
Press-fit in .061 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

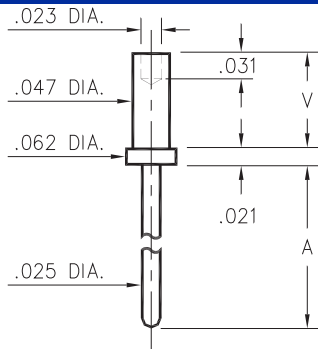
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



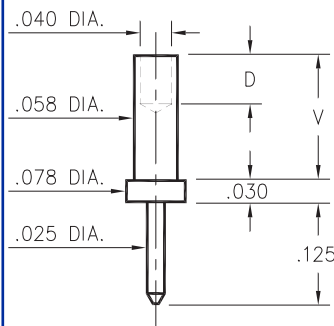
3130/3134/3151



31XX-X-00-XX-00-00-08-0
Swage mount in .052 hole

Basic Part Number	Board Thickness	Length A	Length V
3134-1	.031	.079	.051
3134-2	.062	.079	.082
3134-3	.094	.079	.113
3134-4	.125	.079	.145
3130-1	.031	.179	.051
3130-2	.062	.179	.082
3130-3	.094	.179	.113
3130-4	.125	.179	.145
3151-1	.031	.479	.051
3151-2	.062	.479	.082
3151-3	.094	.479	.113
3151-4	.125	.479	.145

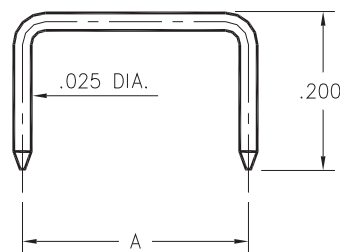
3113



3113-X-00-XX-00-00-08-0
Swage mount in .062 hole

Basic Part Number	Board Thickness	Length V	Depth D
3113-1	.031	.062	.040
3113-2	.062	.094	.062
3113-3	.094	.125	.062
3113-4	.125	.156	.062

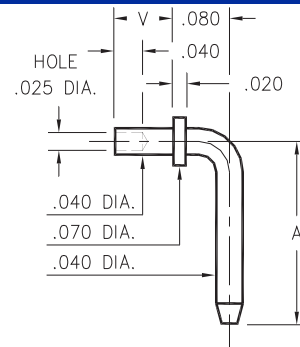
3360



3360-X-14-XX-00-00-08-0
Shorting Jumper

Basic Part Number	Pin Centers A
3360-1	.200
3360-2	.250
3360-3	.300
3360-4	.400
3360-5	.500

3301⇒3304

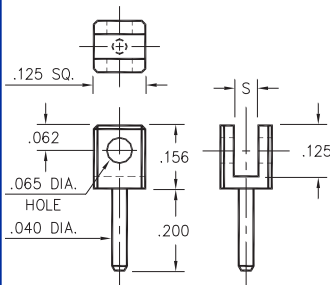


330X-X-14-XX-00-00-08-0
Specify board thickness
Swage mount in .043 hole

Basic Part Number	Pin Centers A
3301-X	.257
3302-X	.357
3303-X	.375
3304-X	.562

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

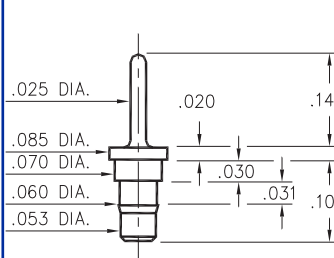
3620



3620-X-32-XX-00-00-08-0
Board edge rivet mount

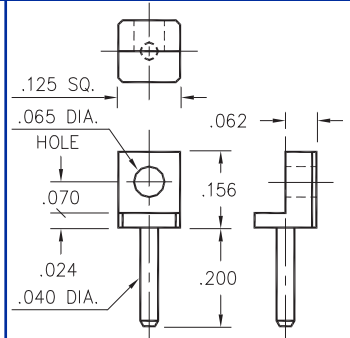
Basic Part Number	Board Thickness	Slot S
3620-1	.031	.047
3620-2	.062	.075

0940



0940-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

3621



3621-0-32-XX-00-00-08-0
Board edge rivet mount

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0

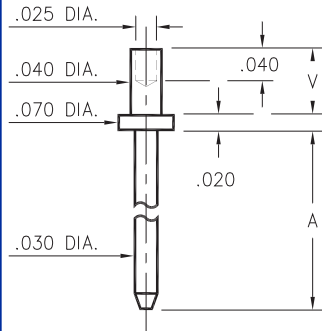
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



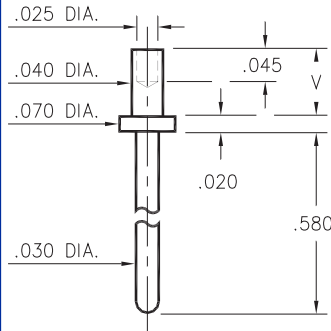
3110/3111



Basic Part Number	Board Thickness	Length A	Length V
3110-1	.031	.150	.051
3110-2	.062	.150	.082
3110-3	.094	.150	.113
3111-1	.031	.300	.051
3111-2	.062	.300	.082
3111-3	.094	.300	.113

311X-X-00-XX-00-00-08-0
Swage mount in .043 hole

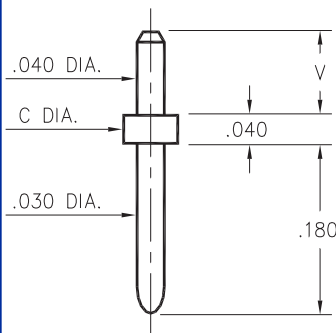
3150



Basic Part Number	Board Thickness	Length V
3150-1	.031	.051
3150-2	.062	.082

3150-X-00-XX-00-00-08-0
Swage mount in .043 mounting hole

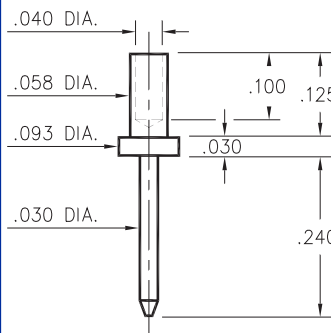
3136/3137



Basic Part Number	Flange Dia. C	Board Thickness	Length V
3136-1		.062	.082
3136-2	.078	.094	.110
3136-3		.125	.145
3137-1		.062	.082
3137-2	.062	.094	.110
3137-3		.125	.145
3137-4		.156	.185

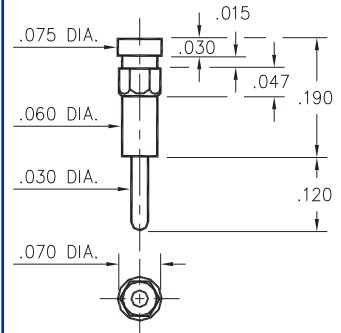
313X-X-00-XX-00-00-08-0
Solder mount in .043 mounting hole

3148



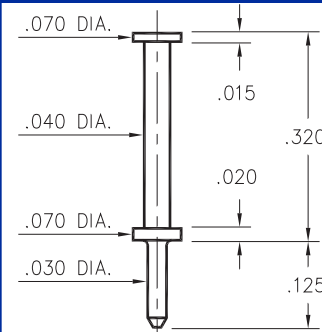
3148-3-00-XX-00-00-08-0
Swage mount in .062 hole for .094 thick board

8815



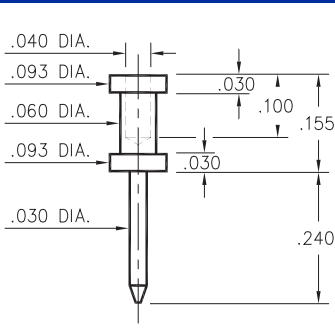
8815-0-00-XX-00-00-03-0
Hex press-fit in .066 plated thru hole

6821



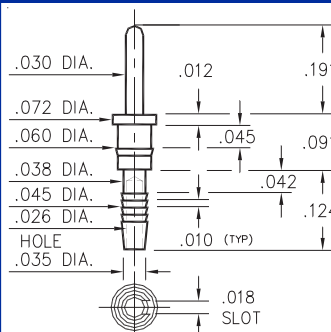
6821-0-00-XX-00-00-08-0
Wire Termination

3132



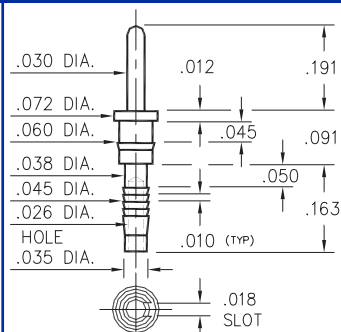
3132-0-00-XX-00-00-08-0
Wire Termination
Material is annealed

5601



5601-0-01-XX-00-00-03-0
Compliant press-fit in .040±.003 plated hole. For .060→.100 thick board.

5602



5602-0-01-XX-00-00-03-0
Compliant press-fit in .040±.003 plated hole. For .090→.130 thick board.

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

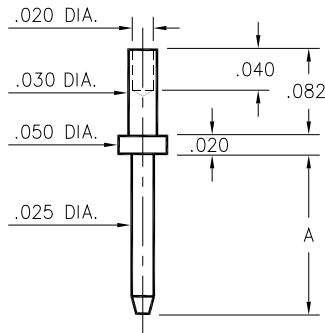
BASIC PART #



SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)

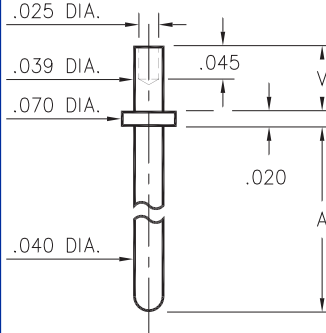
3120



Basic Part Number	Length A
3120-1	.205
3120-2	.250

3120-X-00-XX-00-00-08-0
Swage mount in .034 mounting hole

3122 ⇒ 3153

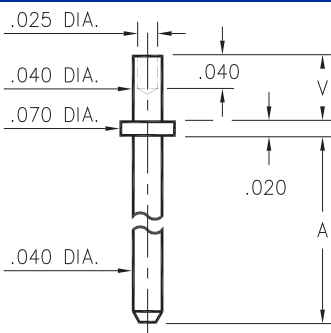


Basic Part Number	Pin Length A
3153-X	.180
3141-X	.230
3122-X	.280
3149-X	.380
3123-X	.580
3140-X	.780
3124-X	.880

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082

31XX-X-00-XX-00-00-08-0
Swage mount in .043 hole

3101 ⇒ 3106

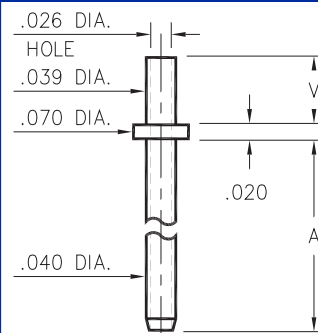


Basic Part Number	Pin Length A
3101-X	.150
3102-X	.188
3103-X	.300
3104-X	.500
3105-X	.750
3106-X	1.000

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

310X-X-00-XX-00-00-08-0
Swage mount in .043 hole

3221 ⇒ 3223

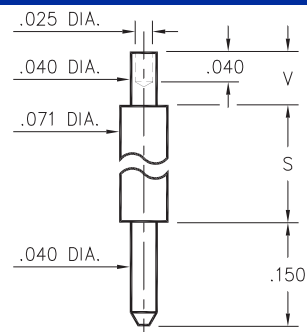


Basic Part Number	Pin Length A
3221-X	.100
3222-X	.150
3223-X	.300

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

322X-X-00-XX-00-00-08-0
Swage mount in .043 hole

3125/3126

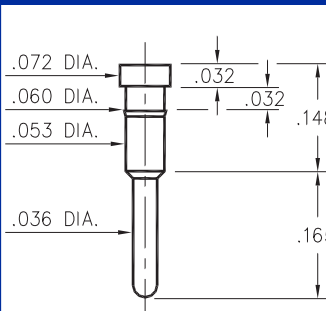


Basic Part Number	Pin Length S
3125-X	.170
3126-X	.420

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

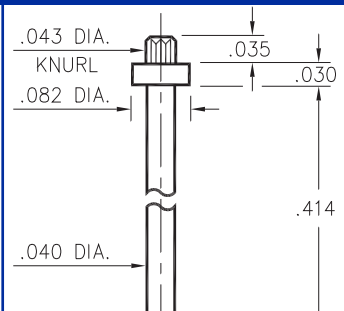
312X-X-00-XX-00-00-08-0
Swage mount in .043 hole

0995



0995-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

4526



4526-0-00-XX-00-00-03-0
Press-fit in .040 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

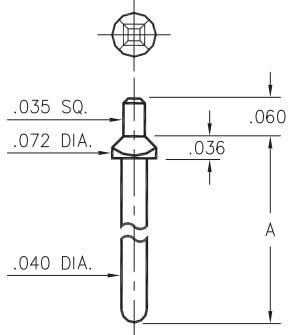
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



8600/8954/8955

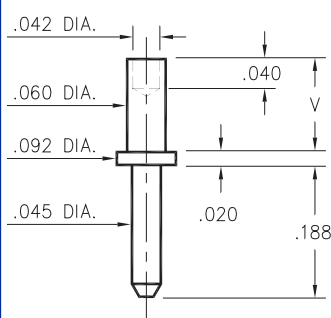


Basic Part Number	Pin Length A
8600-0	.400
8600-1	.850
8600-2	1.200
8954-0	.136
8955-0	.655

8XXX-X-05-XX-00-00-03-0

Square press-fit in .043 plated thru hole

3159

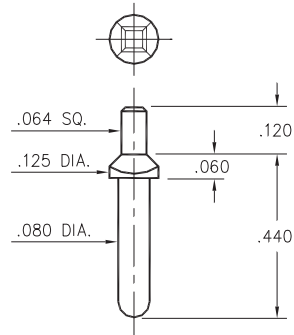


Basic Part Number	Board Thickness	Length V
3159-1	.031	.062
3159-2	.062	.094
3159-3	.094	.125
3159-4	.125	.156

3159-X-00-XX-00-00-08-0

Swage mount in .064 hole

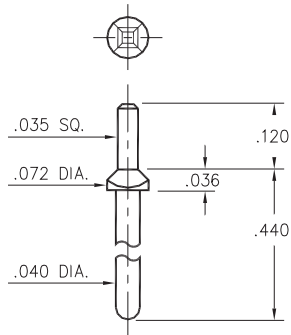
8952



8952-0-05-XX-00-00-03-0

Square press-fit in .087 plated thru hole

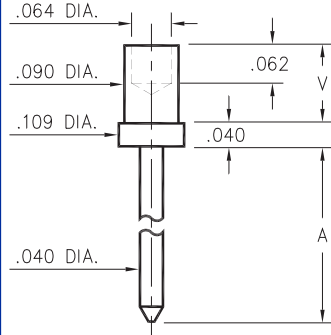
8953



8953-0-05-XX-00-00-03-0

Square press-fit in .047 plated thru hole

3230

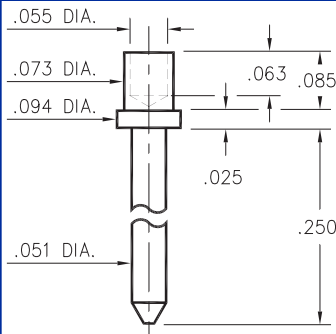


Basic Part Number	Board Thickness	Length A	Length V
3230-1	.031	.202	.065
3230-2	.062	.228	.095
3230-3	.094	.258	.125
3230-4	.125	.288	.155

3230-X-00-XX-00-00-08-0

Swage mount in .094 hole

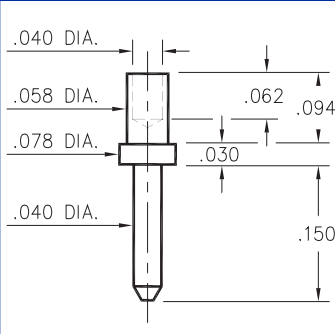
3146



3146-2-00-XX-00-00-08-0

Swage mount in .076 hole.
For .062 thick board

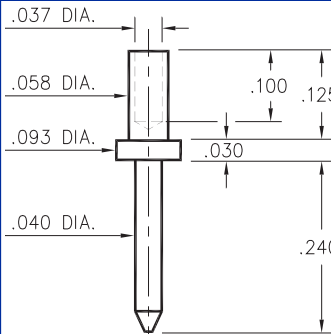
3142



3142-2-00-XX-00-00-08-0

Swage mount in .062 hole.
For .062 thick board

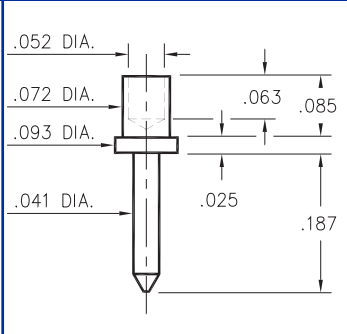
3232



3232-3-00-XX-00-00-08-0

Swage mount in .062 hole.
For .094 thick board

3145



3145-2-00-XX-00-00-08-0

Swage mount in .076 hole.
For .062 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

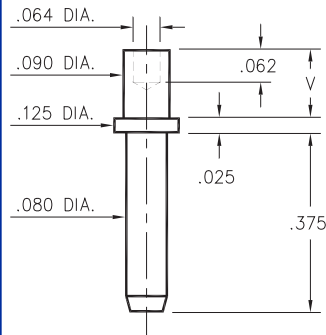
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)



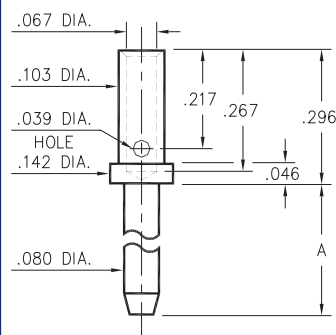
3231



Basic Part Number	Board Thickness	Length V
3231-2	.062	.094
3231-3	.094	.125
3231-4	.125	.156

3231-X-00-XX-00-00-08-0
Swage mount in .094 hole.

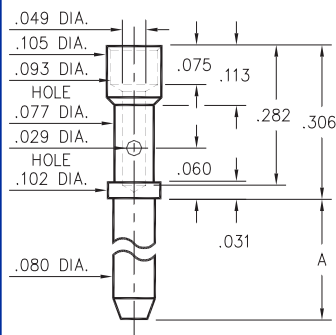
3609



Basic Part Number	Pin Length A
3609-1	.200
3609-2	.375
3609-3	.500

3609-X-07-XX-00-00-08-0
#16A Crimp barrel

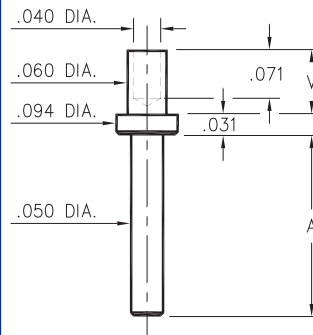
3601



Basic Part Number	Pin Length A
3601-1	.200
3601-2	.375
3601-3	.500

3601-X-07-XX-00-00-08-0
#20A Crimp barrel

3133/3138/3152

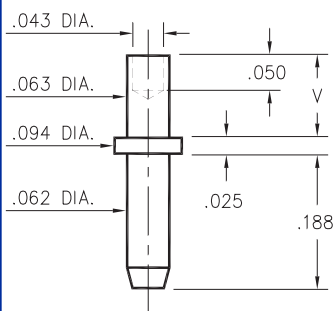


Basic Part Number	Pin Length A
3152-X	.094
3133-X	.219
3138-X	.282

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

31XX-X-00-XX-00-00-08-0
Specify board thickness
Swage mount in .064 hole

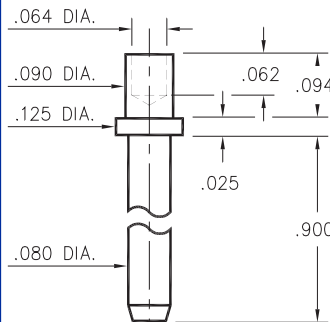
3144



Basic Part Number	Board Thickness	Length V
3144-1	.031	.053
3144-2	.062	.084
3144-3	.094	.115

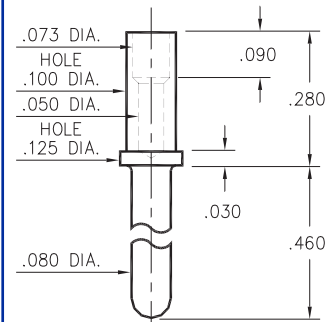
3144-X-00-XX-00-00-08-0
Swage mount in .067 hole.

3233



3233-2-00-XX-00-00-08-0
Swage mount in .094 hole.
For .062 thick board.

0520



0520-0-00-XX-00-00-03-0
Annealed
#18 Gage crimp barrel

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

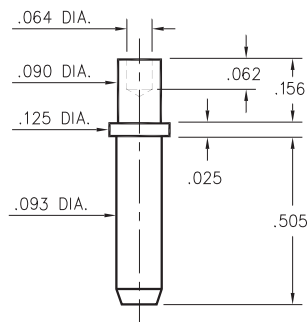
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)
- ◇ 34 50μ" GOLD OVER NICKEL (RoHS)

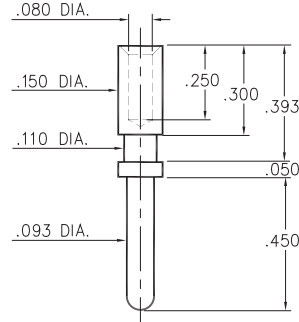


5231



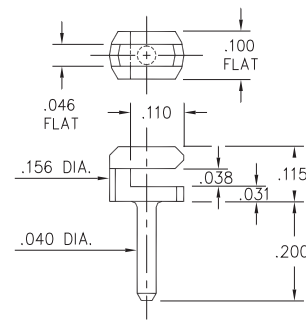
5231-0-00-XX-00-00-38-0
Swage mount in .094 hole.
For .125 thick board.

9092



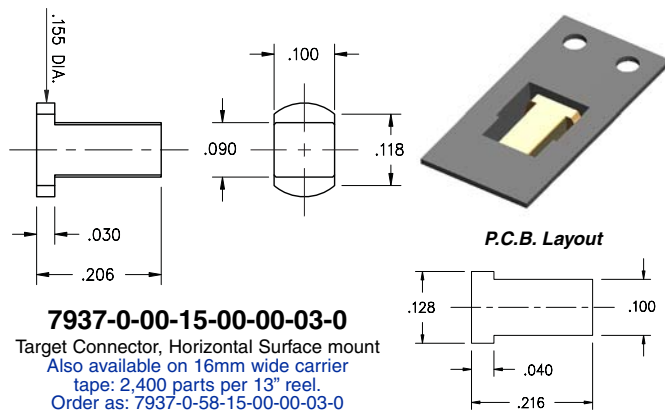
9092-0-00-XX-00-00-38-0
Wire Termination.

7310



7310-0-01-XX-00-00-08-0
Board edge press-fit

7937



SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
(Except Swage pins which are annealed)

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 0X - XX - 00 - 00 - XX - 0

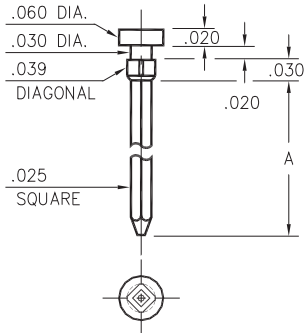
BASIC PART #



SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◇ 21 20 μ " GOLD OVER NICKEL (RoHS)
- ◇ 34 50 μ " GOLD OVER NICKEL (RoHS)

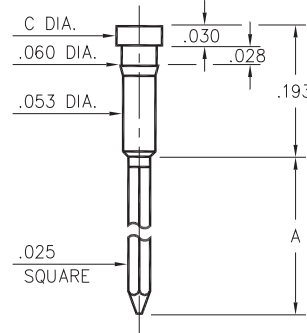
5275



Basic Part Number	# of Wraps	Wrapost Length A
5275-1	1	.370
5275-2	2	.470
5275-3	3	.610

5275-X-05-XX-00-00-01-0
Square press-fit in .035 plated thru hole

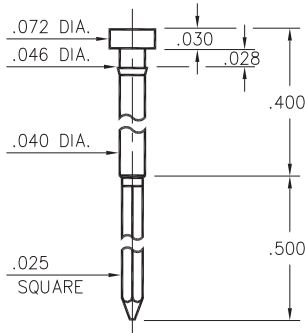
1010 ⇒ 1012/1020 ⇒ 1022



Basic Part Number	# of Wraps	Wrapost Length A	Head Dia. C
1012-1	1	.260	.072
1011-2	2	.360	
1010-3	3	.500	
1022-1	1	.260	.062
1021-2	2	.360	
1020-3	3	.500	

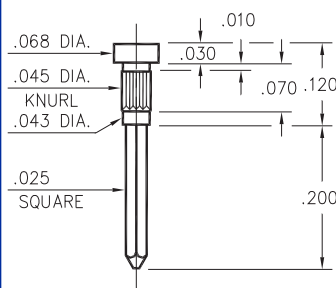
10XX-X-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1215



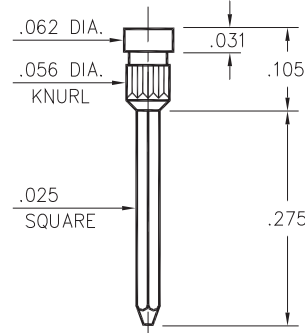
1215-3-05-XX-00-00-01-0
Press-fit in .043 mounting hole

1124



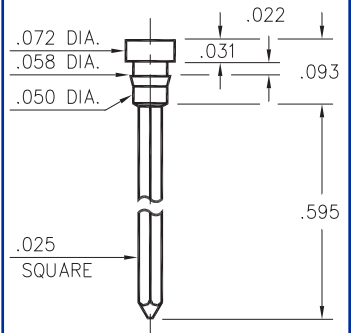
1124-0-05-XX-00-00-01-0
Press-fit in .043 mounting hole

1210



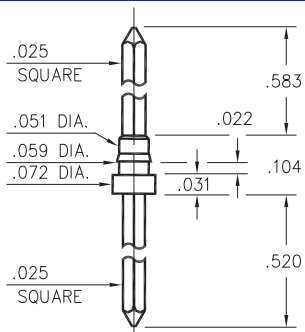
1210-0-05-XX-00-00-01-0
Press-fit in .053 mounting hole

1222



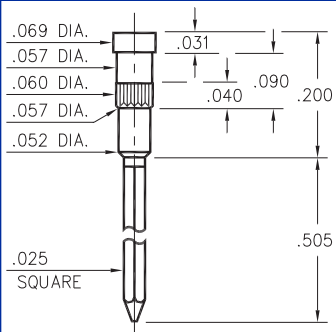
1222-0-05-XX-00-00-01-0
Press-fit in .055 mounting hole

1221



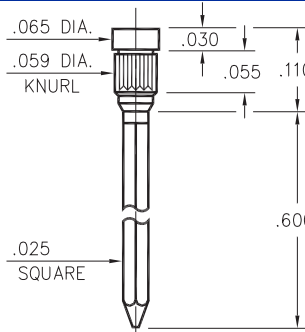
1221-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

1110



1110-3-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1094



1094-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

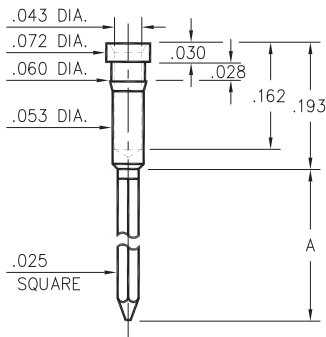
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)



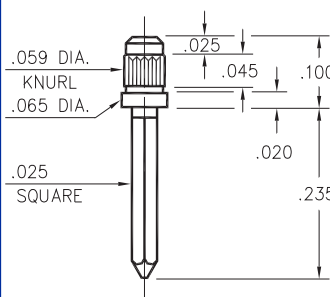
1030 ⇒ 1032



103X-X-05-XX-00-00-01-0
Press-fit in .057 mounting hole

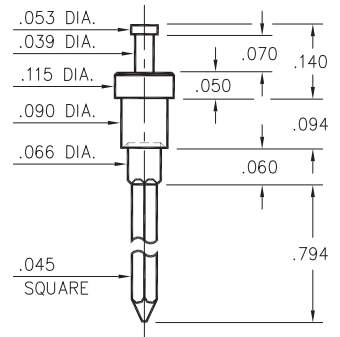
Basic Part Number	# of Wraps	Wrapost Length A
1032-1	1	.260
1031-2	2	.360
1030-3	3	.500

1216



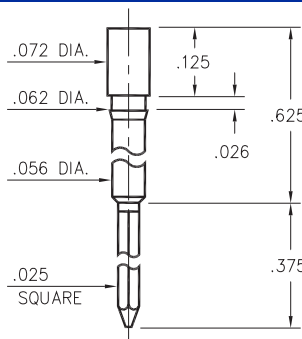
1216-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

1095



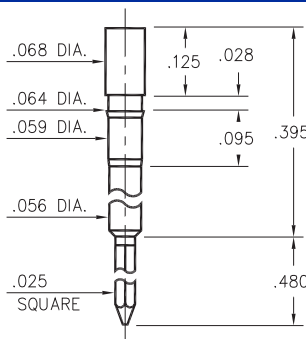
1095-0-05-XX-00-00-01-0
Swage mount in .094 hole
For .062 thick board

1214



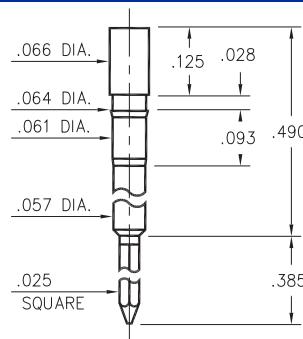
1214-0-05-XX-00-00-01-0
Press-fit in .059 mounting hole

1212



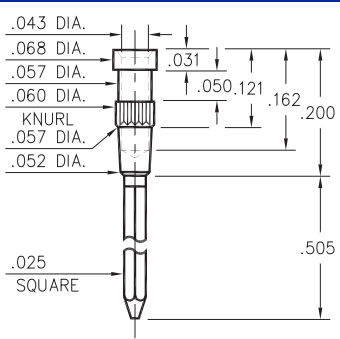
1212-0-05-XX-00-00-01-0
Press-fit in .061 mounting hole

1213



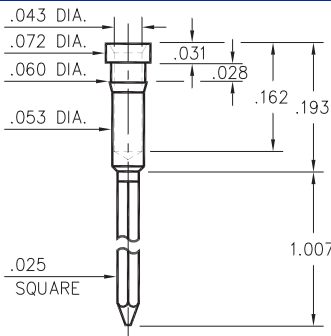
1213-0-05-XX-00-00-01-0
Press-fit in .061 mounting hole

0318



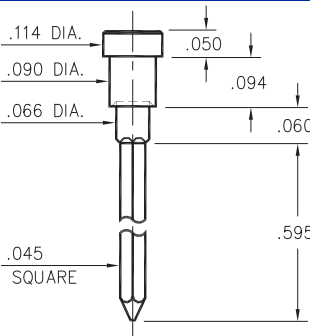
0318-3-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1302



1302-0-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1097



1097-0-05-XX-00-00-01-0
Swage mount in .094 hole
for .062 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 05 - XX - 00 - 00 - 01 - 0

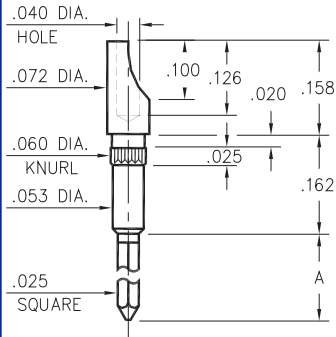
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)



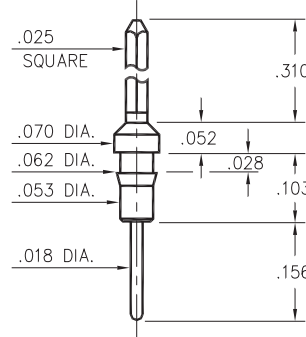
8301



8301-X-24-XX-00-00-01-0
Press-fit in .057 mounting hole

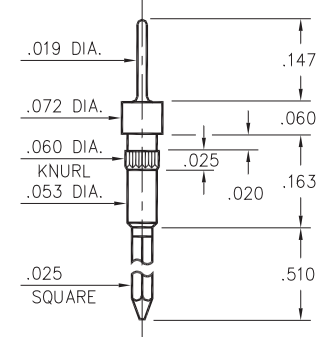
Basic Part Number	# of Wraps	Wrapost Length A
8301-2	2	.370
8301-3	3	.510

1083



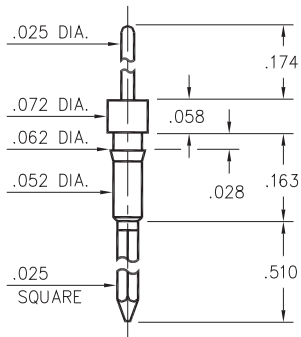
1083-0-05-XX-00-00-01-0
Press-fit in .059 mounting hole

5301



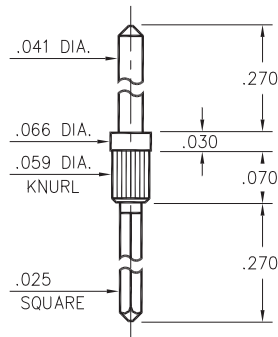
5301-0-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1090



1090-0-05-XX-00-00-01-0
Press-fit in .059 mounting hole

8608



8608-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

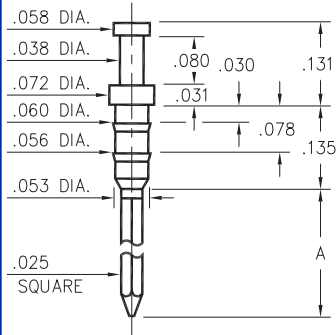
BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 15 10 μ " GOLD OVER NICKEL (RoHS)
- ◇ 21 20 μ " GOLD OVER NICKEL (RoHS)



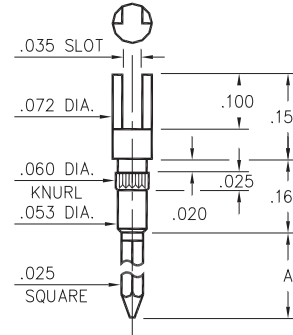
1096



Basic Part Number	# of Wraps	Wrapost Length A
1096-2	2	.381
1096-3	3	.527

1096-X-05-XX-00-00-01-0
Press-fit in .057 mounting hole

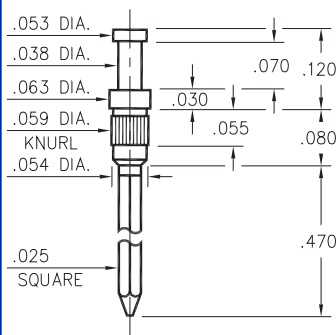
1106



Basic Part Number	# of Wraps	Wrapost Length A
1106-2	2	.370
1106-3	3	.510

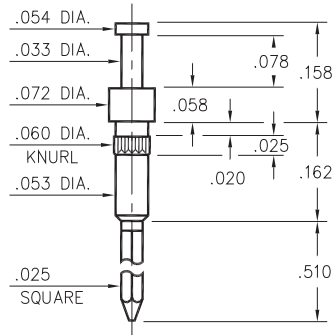
1106-X-23-XX-00-00-01-0
Press-fit in .057 mounting hole

1093



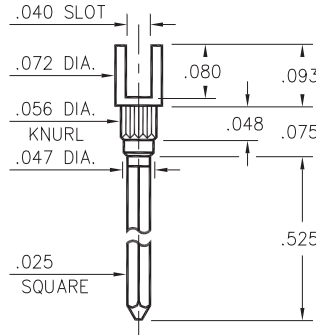
1093-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

0730



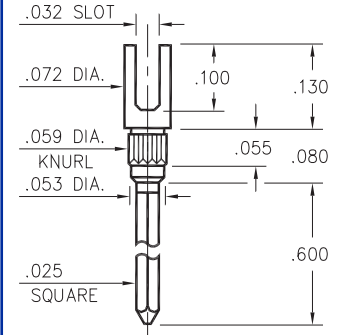
0730-3-05-XX-00-00-01-0
Press-fit in .057 mounting hole

1122



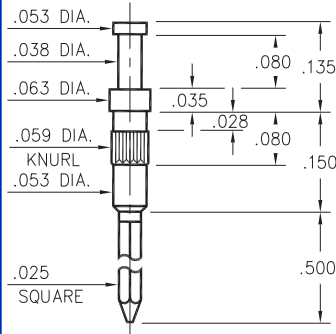
1122-0-22-XX-00-00-01-0
Press-fit in .053 mounting hole

1064



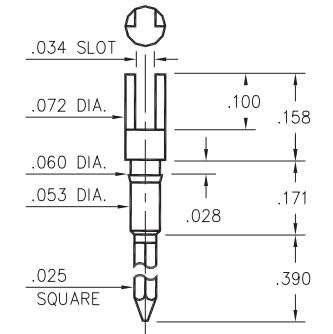
1064-0-23-XX-00-00-01-0
Press-fit in .056 mounting hole

1092



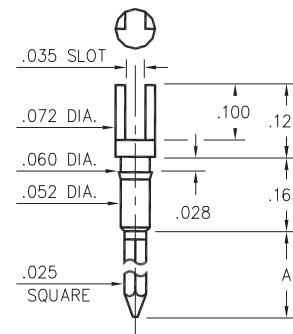
1092-0-05-XX-00-00-01-0
Press-fit in .056 mounting hole

1068



1068-0-23-XX-00-00-01-0
Press-fit in .057 mounting hole

1070 ⇒ 1072



107X-X-23-XX-00-00-01-0
Press-fit in .057 mounting hole

Basic Part Number	# of Wraps	Wrapost Length A
1072-1	1	.260
1071-2	2	.370
1070-3	3	.510

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - 01 - 0

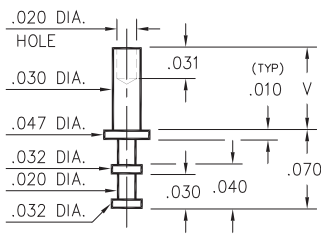
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 15 10μ" GOLD OVER NICKEL (RoHS)
- ◇ 21 20μ" GOLD OVER NICKEL (RoHS)



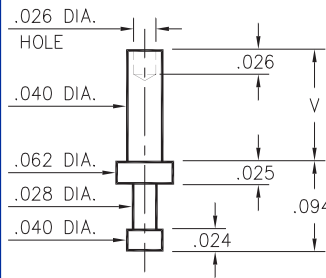
2111



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

2111-X-00-XX-00-00-07-0
Swage mount in .033 hole

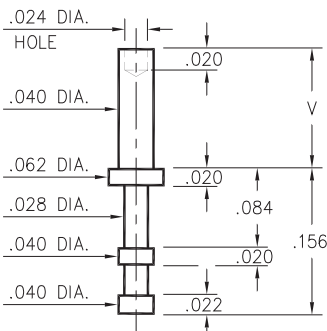
2113



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

2113-X-00-XX-00-00-07-0
Swage mount in .043 hole

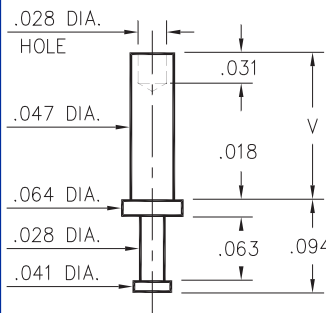
2108



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

2108-X-00-XX-00-00-07-0
Swage mount in .043 hole

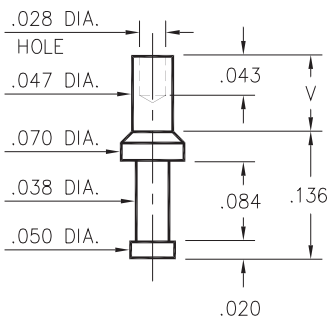
2102



- X -	Board Thickness	Length V
5	.016	.035
1	.031	.054
2	.062	.084
3	.094	.115
4	.125	.147

2102-X-00-XX-00-00-07-0
Swage mount in .052 hole

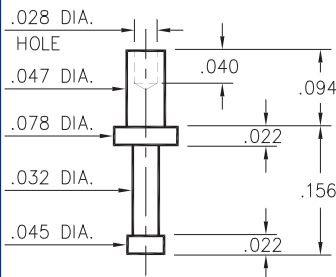
2109



- X -	Board Thickness	Length V
1	.031	.052
2	.062	.085

2109-X-00-XX-00-00-07-0
Swage mount in .052 hole

2324



2324-2-00-XX-00-00-07-0
Swage mount in .052 hole for .062 thick board

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

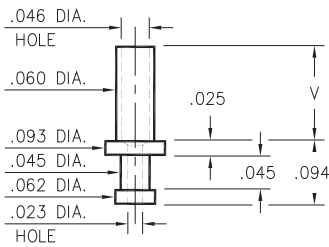
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



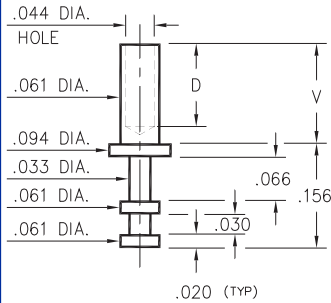
2312



- X -	Board Thickness	Length V
1	.031	.053
2	.062	.094
3	.094	.115
4	.125	.147

2312-X-00-XX-00-00-07-0
Swage mount in .064 hole

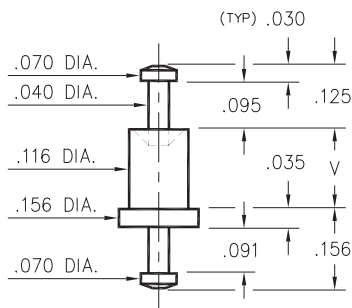
2308



- X -	Board Thickness	Length V	Depth D
1	.031	.054	.036
2	.062	.084	.066
3	.094	.115	.096
4	.125	.147	.126

2308-X-00-XX-00-00-07-0
Swage in .064 mount hole

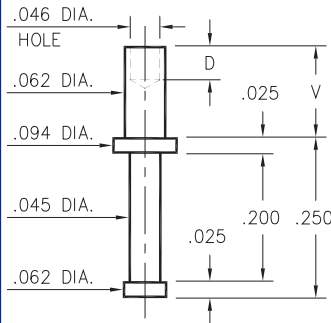
2707



- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2707-X-00-XX-00-00-07-0
Swage mount in .120 hole

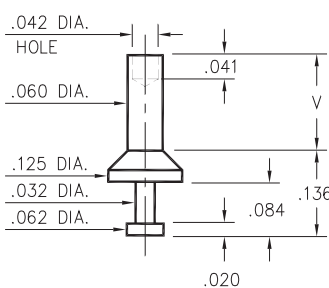
2329



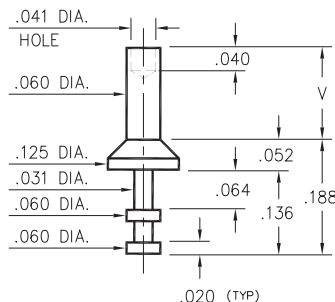
- X -	Board Thickness	Length V	Depth D
1	.031	.045	.045
2	.062	.094	
3	.094	.125	.062
4	.125	.156	

2329-X-00-XX-00-00-07-0
Swage mount in .067 hole

2510/2513



2510-X-00-XX-00-00-07-0
Swage mount in .064 hole



2513-X-00-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

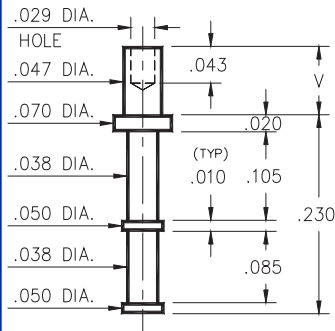
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



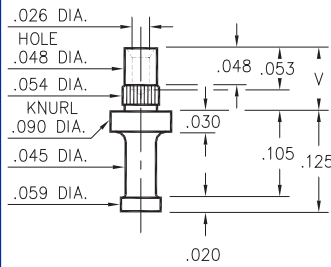
2110



2110-X-00-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.049
2	.062	.082

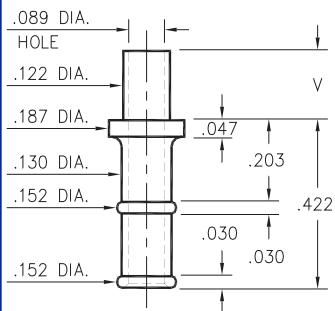
2333



2333-X-00-XX-00-00-07-0
Press-fit and swage in .052 mounting hole

- X -	Board Thickness	Length V
1	.078	.103
2	.062	.087
3	.047	.072

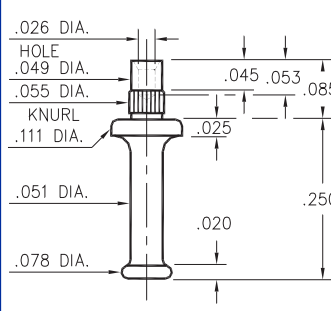
2821



2821-X-00-XX-00-00-07-0
Swage mount in .125 hole

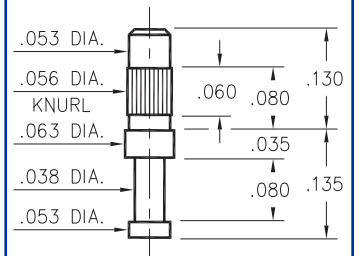
- X -	Board Thickness	Length V
2	.062	.109
3	.094	.141
4	.125	.172

2533



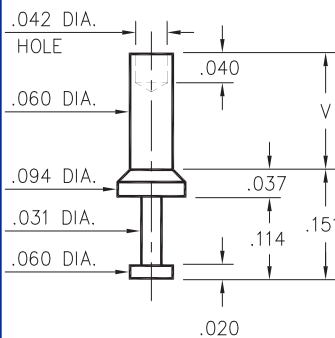
2533-0-00-XX-00-00-07-0
Press-fit & swage in .052 mtg. hole. For .062 thick board

2101

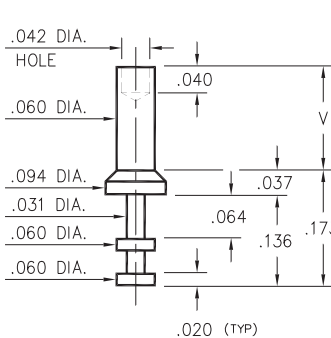


2101-3-00-XX-00-00-07-0
Press-fit in .053 mtg. hole. For .062 to .094 thick board

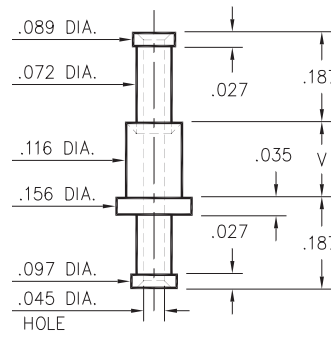
2316/2317/2708



2316-X-00-XX-00-00-07-0
Swage mount in .064 hole



2317-X-00-XX-00-00-07-0
Swage mount in .064 hole



2708-X-00-XX-00-00-07-0
Swage mount in .120 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

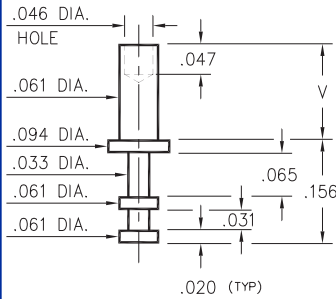
BASIC PART #

SPECIFY PIN FINISH:

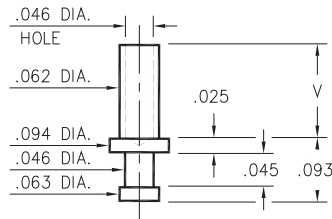
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



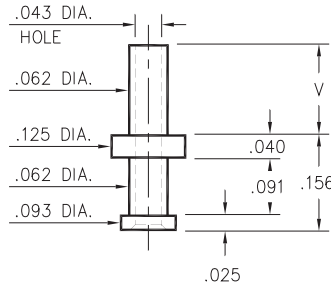
2348/2301/2506



2348-X-00-XX-00-00-07-0
Swage mount in .064 hole



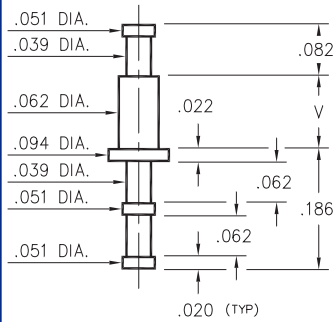
2301-X-00-XX-00-00-07-0
Swage mount in .067 hole



2506-X-00-XX-00-00-07-0
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

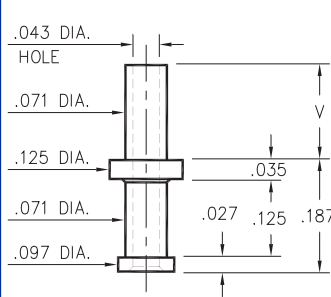
2310



2310-X-00-XX-00-00-07-0
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.082
3	.094	.113
4	.125	.145

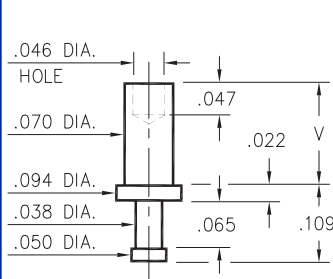
2505



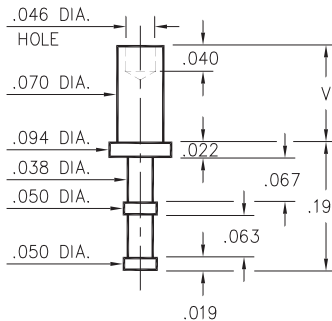
2505-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.093
3	.094	.125
4	.125	.156

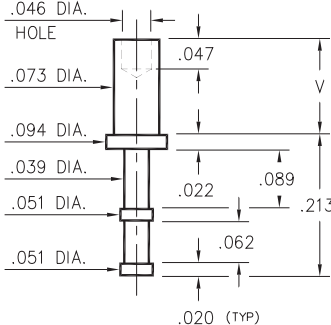
2325/2355/2365



2325-X-00-XX-00-00-07-0
Swage mount in .073 hole



2355-X-00-XX-00-00-07-0
Swage mount in .073 hole



2365-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

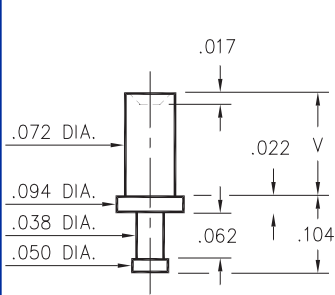
BASIC PART #

SPECIFY PIN FINISH:

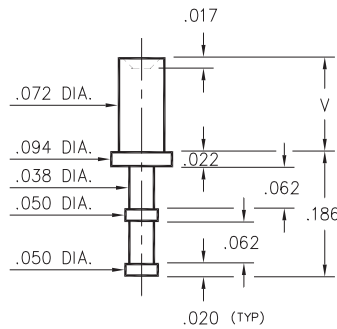
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



2304/2305



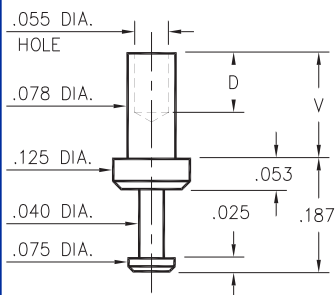
2304-X-00-XX-00-00-07-0
Swage mount in .076 hole



2305-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

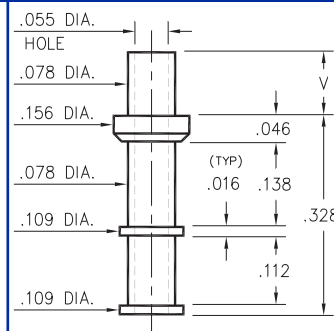
2503



2503-X-00-XX-00-00-07-0
Swage mount in .082 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.078	.068
2	.062	.109	.098
3	.094	.141	.098
4	.125	.172	.098

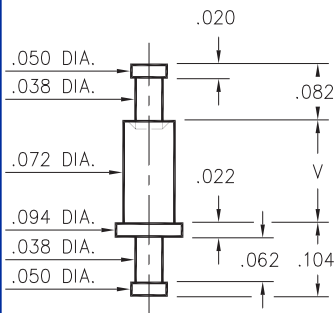
2704



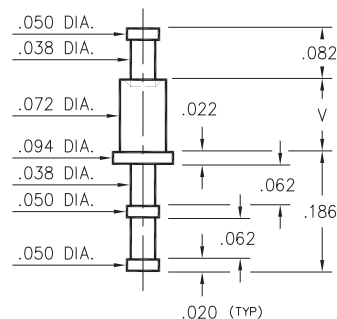
2704-X-00-XX-00-00-07-0
Swage mount in .082 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

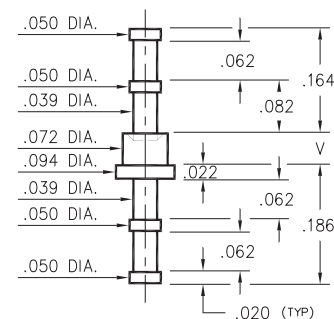
2306/2307/2311



2306-X-00-XX-00-00-07-0
Swage mount in .076 hole



2307-X-00-XX-00-00-07-0
Swage mount in .076 hole



2311-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

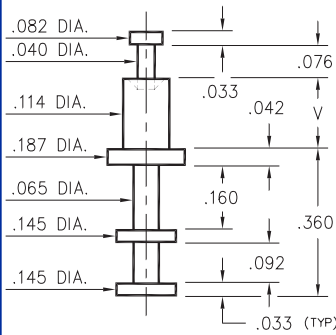
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



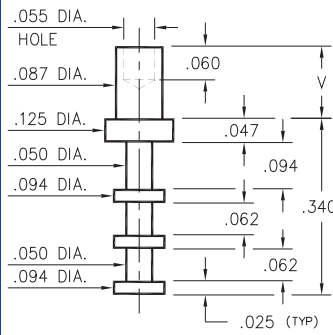
2810



2810-X-00-XX-00-00-07-0
Swage mount in .118 hole

- X -	Board Thickness	Length V
2	.062	.105
3	.094	.135
4	.125	.165

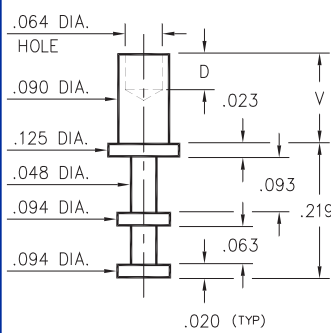
2524



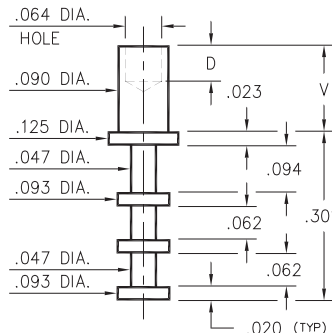
2524-X-00-XX-00-00-07-0
Swage mount in .092 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

2561/2508



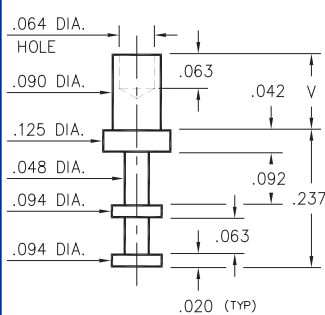
2561-X-00-XX-00-00-07-0
Swage mount in .094 hole



2508-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.063	.047
2	.062	.094	.062
3	.094	.125	.062
4	.125	.156	.062

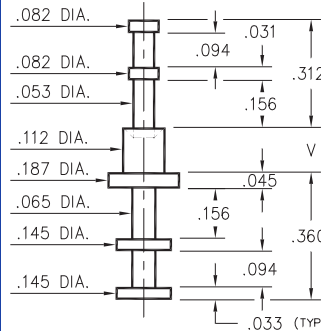
2551



2551-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

2812



2812-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.062	.105
2	.094	.135
3	.125	.165
4	.188	.230

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

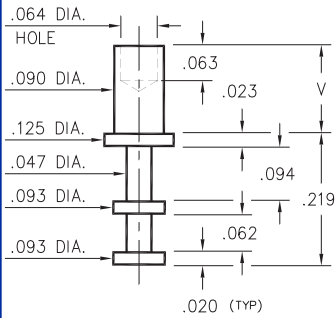
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



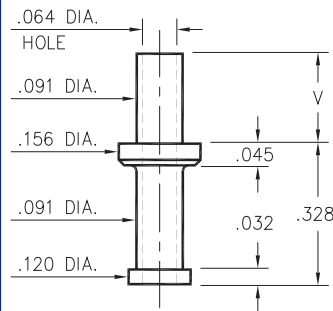
2501



2501-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

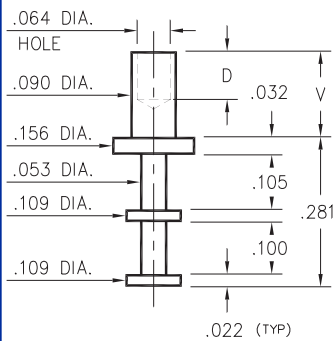
2703



2703-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.077
2	.062	.107
3	.094	.137
4	.125	.167

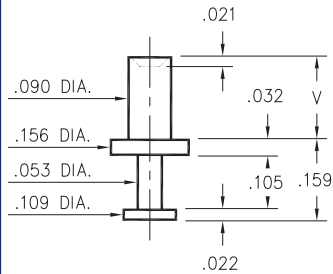
2702



2702-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.075	.063
2	.062	.105	
3	.094	.135	.093
4	.125	.165	

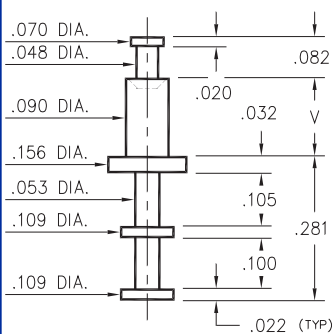
2710



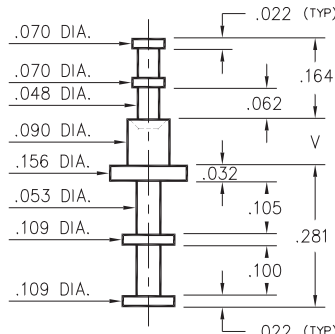
2710-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2717/2713



2717-X-00-XX-00-00-07-0
Swage mount in .094 hole



2713-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

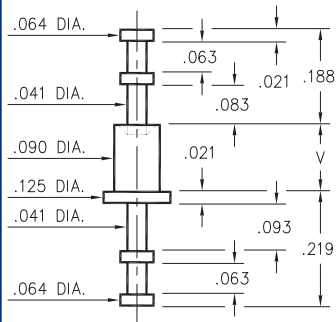
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



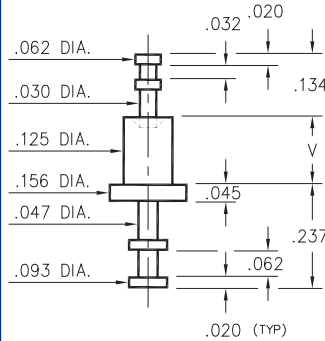
2512



2512-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

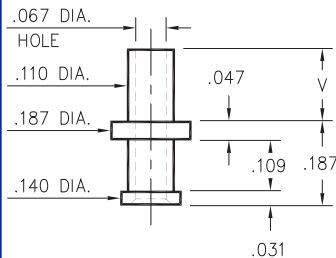
2705



2705-X-00-XX-00-00-07-0
Swage mount in .129 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

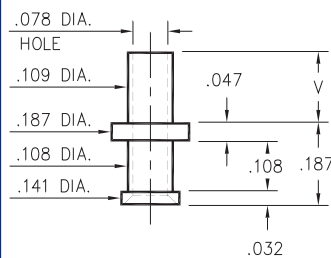
2803



2803-X-00-XX-00-00-07-0
Swage mount in .113 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

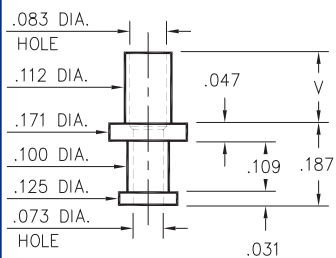
2815



2815-X-00-XX-00-00-07-0
Swage mount in .113 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

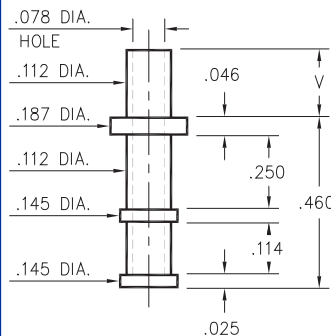
2816



2816-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172

2817



2817-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

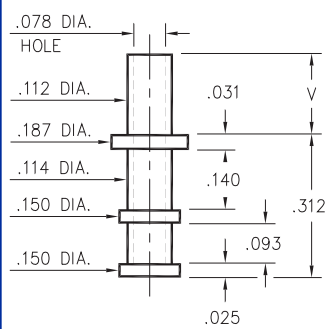
BASIC PART #

SPECIFY PIN FINISH:

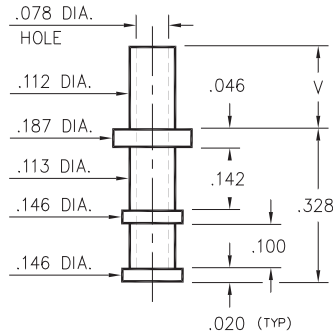
- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



2802/2804



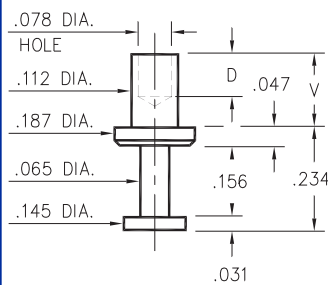
2802-X-00-XX-00-00-07-0
Swage mount in .118 hole



2804-X-00-XX-00-00-07-0
Swage mount in .118 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

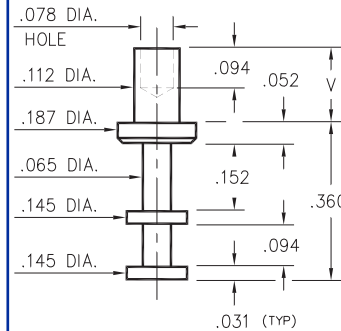
2805



2805-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.074	.068
2	.062	.105	.098
3	.094	.135	
4	.125	.165	

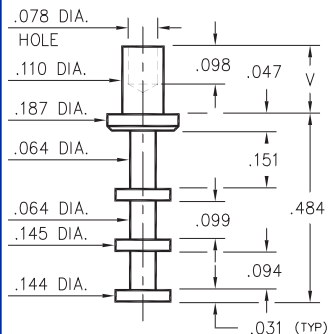
2801



2801-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172
5	.188	.234

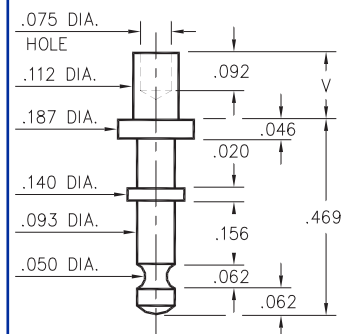
2806



2806-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.141
4	.125	.172

2811



2811-X-00-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

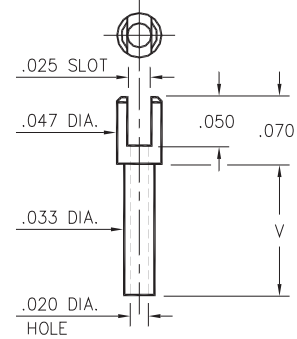
BASIC PART #



SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)

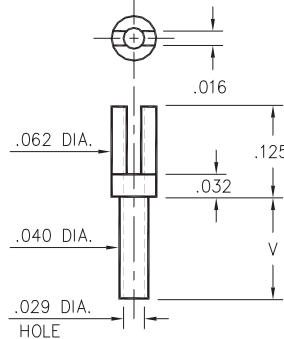
2104



2104-X-01-XX-00-00-07-0
Swage mount in .036 hole

- X -	Board Thickness	Length V
1	.031	.055
2	.062	.086
3	.094	.117
4	.125	.148

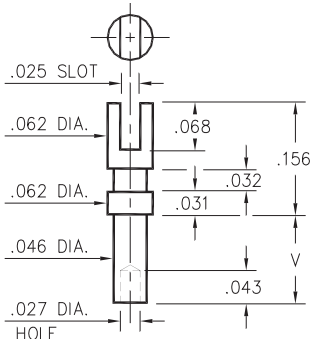
2112



2112-X-01-XX-00-00-07-0
Swage mount in .043 hole

- X -	Board Thickness	Length V
5	.016	.037
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

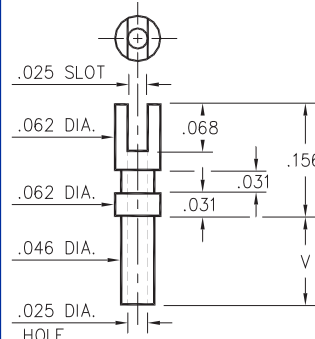
2105



2105-X-01-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.055
2	.062	.086
3	.094	.117
4	.125	.149

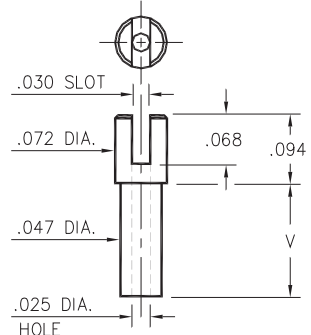
2103



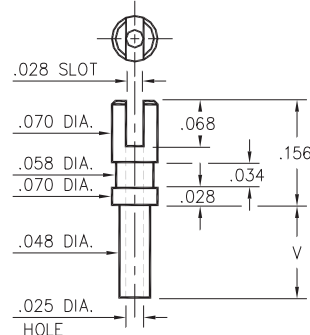
2103-X-01-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.058
2	.062	.089
3	.094	.120
4	.125	.150

2106/2107



2106-X-01-XX-00-00-07-0
Swage mount in .052 hole



2107-X-01-XX-00-00-07-0
Swage mount in .052 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

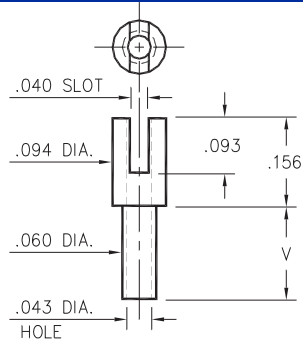
BASIC PART #

SPECIFY PIN FINISH:

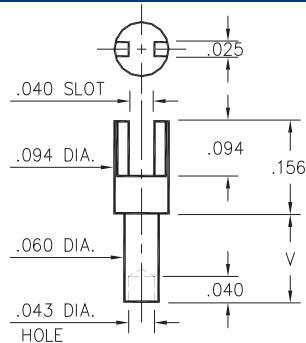
- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 44 300 μ " SILVER OVER COPPER (RoHS)
- ◇ 50 300 μ " ELECTRO-SOLDER (RoHS) (60/40 SnPb)



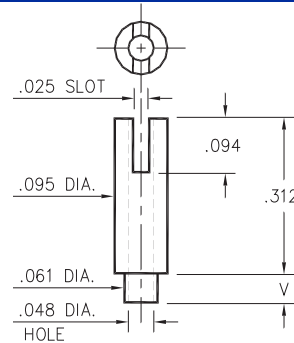
2303/2323/2322



2303-X-01-XX-00-00-07-0
Swage mount in .064 hole



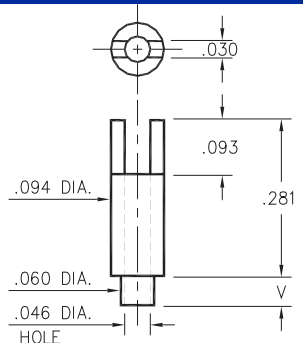
2323-X-01-XX-00-00-07-0
Swage mount in .064 hole



2322-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

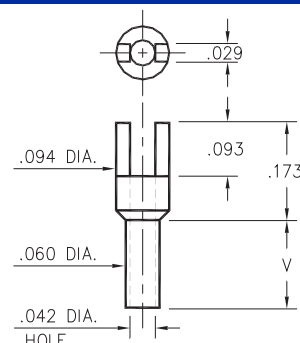
2320



2320-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115

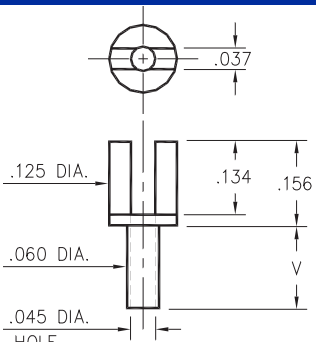
2328



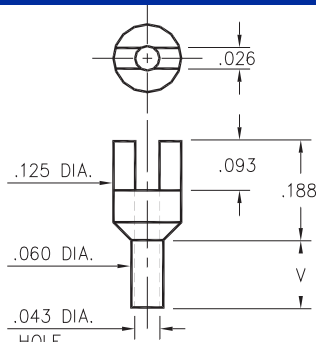
2328-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

2520/2517



2520-X-01-XX-00-00-07-0
Swage mount in .064 hole



2517-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.062
2	.062	.094
3	.094	.125
4	.125	.156

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

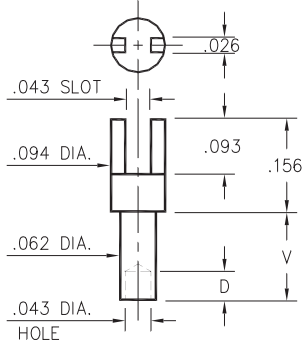
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



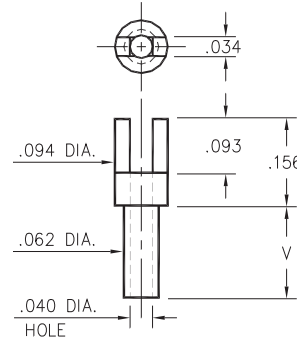
2315



2315-X-01-XX-00-00-07-0
Swage mount in .067 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.045	.040
2	.062	.094	
3	.094	.125	.062
4	.125	.156	

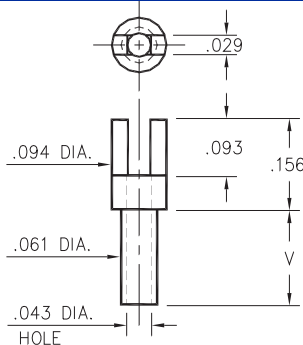
2302



2302-X-01-XX-00-00-07-0
Swage mount in .067 hole.

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

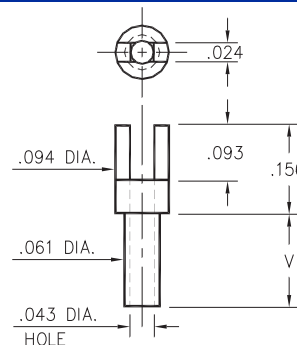
2352



2352-X-01-XX-00-00-07-0
Swage mount in .067 hole

- X -	Board Thickness	Length V
1	.031	.045
2	.062	.094
3	.094	.125
4	.125	.156

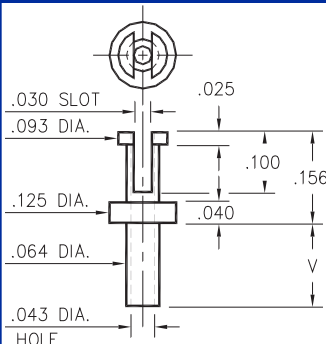
2362



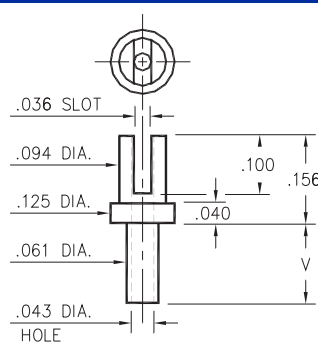
2362-X-01-XX-00-00-07-0
Swage mount in .067 hole

- X -	Board Thickness	Length V
5	.016	.037
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

2507/2526



2507-X-01-XX-00-00-07-0
Swage mount in .067 hole



2526-X-01-XX-00-00-07-0
Swage mount in .064 hole

- X -	Board Thickness	Length V
1	.031	.053
2	.062	.084
3	.094	.115
4	.125	.147

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

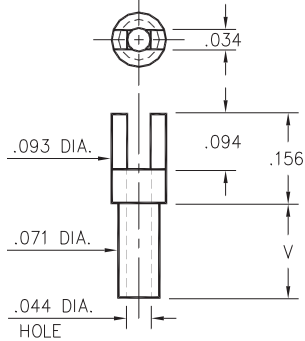
BASIC PART #

SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 44 300 μ " SILVER OVER COPPER (RoHS)
- ◇ 50 300 μ " ELECTRO-SOLDER (RoHS) (60/40 SnPb)



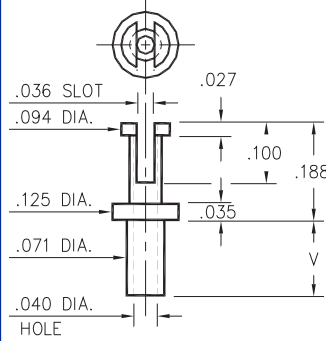
2314



2314-X-01-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.045
2	.062	.094
3	.094	.125
4	.125	.156

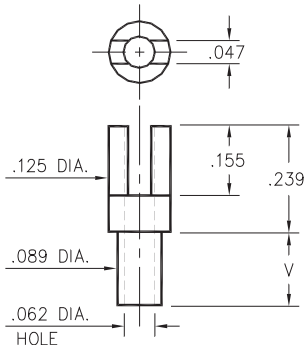
2511



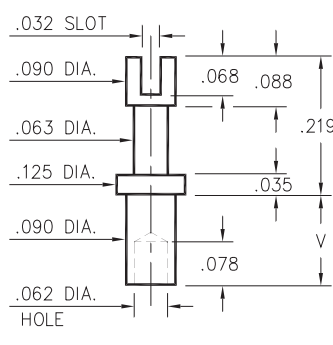
2511-X-01-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.094
3	.094	.125
4	.125	.156

2515/2516



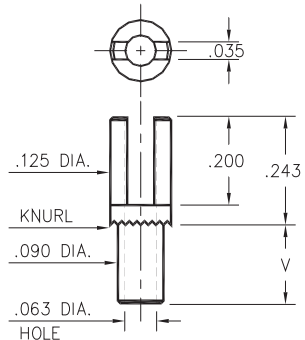
2515-X-01-XX-00-00-07-0
Swage mount in .094 hole



2516-X-01-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.147

2502



2502-X-01-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
1	.031	.080
2	.062	.111
3	.094	.143
4	.125	.174

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

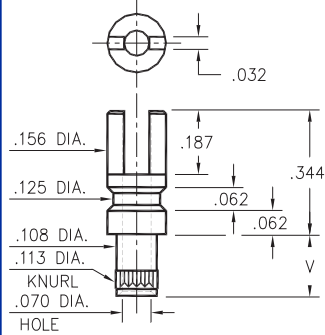
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



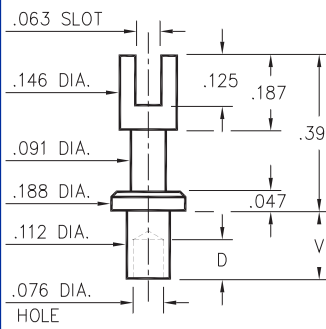
2715



2715-X-01-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
2	.062	.109
3	.094	.141
4	.125	.172

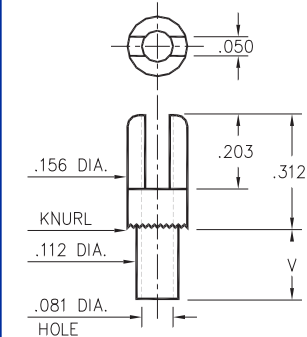
2809



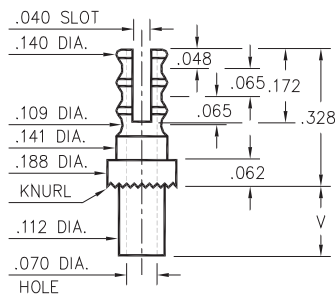
2809-X-01-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V	Depth D
1	.031	.078	.068
2	.062	.109	
3	.094	.141	.098
4	.125	.172	

2701/2808



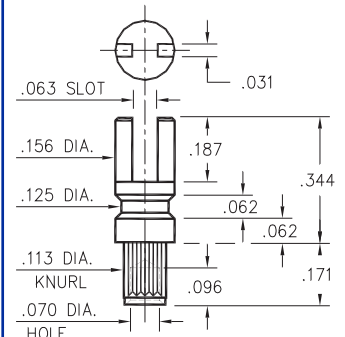
2701-X-01-XX-00-00-07-0
Swage mount in .116 hole



2808-X-01-XX-00-00-07-0
Swage mount in .116 hole

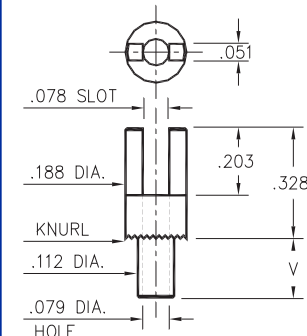
- X -	Board Thickness	Length V
1	.031	.075
2	.062	.105
3	.094	.135
4	.125	.165

2762



2762-4-01-XX-00-00-07-0
Swage mount in .116 hole
For .125 thick board

2807



2807-X-01-XX-00-00-07-0
Swage mount in .116 hole

- X -	Board Thickness	Length V
1	.031	.078
2	.062	.109
3	.094	.140
4	.125	.171

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 01 - XX - 00 - 00 - 07 - 0

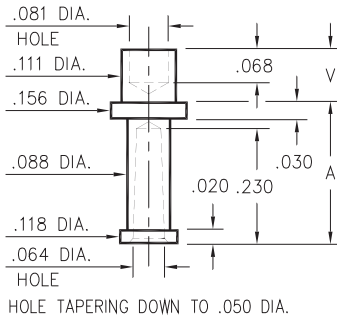
BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



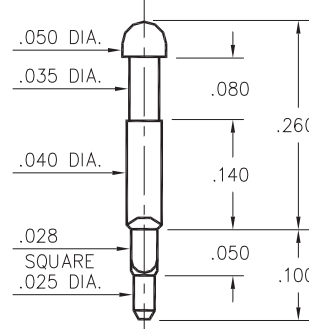
2709



2709-X-07-XX-00-00-07-0
Swage mount in .116 hole

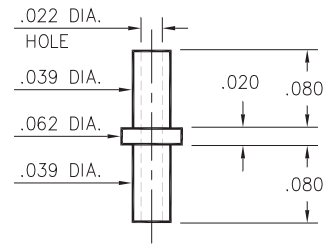
- X -	Board Thickness	Length V	Length A
2	.062	.109	.281
3	.094	.141	.250

8602



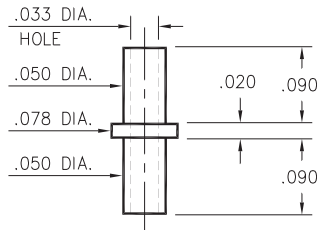
8602-1-00-XX-00-00-07-0
Square press-fit in .032 plated thru hole

2115



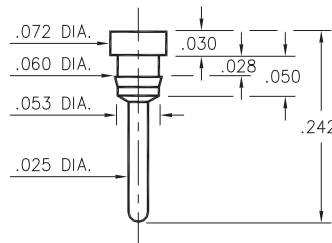
2115-2-00-XX-00-00-07-0
Swage mount in .043 hole
For .062 thick board

2326



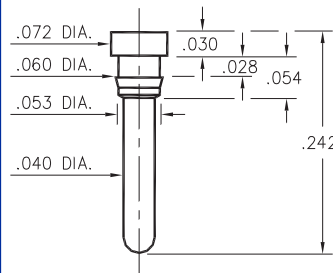
2326-2-00-XX-00-00-07-0
Swage mount in .055 hole
for .062 thick board

8831



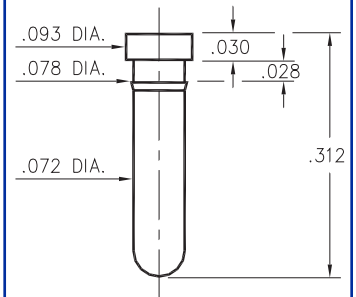
8831-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8835



8835-0-00-XX-00-00-03-0
Press-fit in .057 mounting hole

8836



8836-0-00-XX-00-00-03-0
Press-fit in .075 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - XX - XX - 00 - 00 - XX - 0

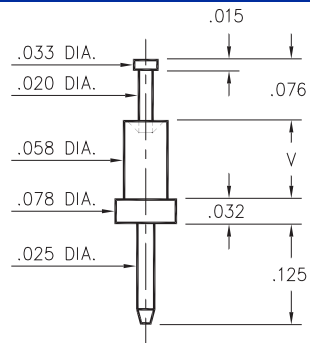
BASIC PART #



SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 44 300 μ " SILVER OVER COPPER (RoHS)
- ◇ 50 300 μ " ELECTRO-SOLDER (RoHS) (60/40 SnPb)

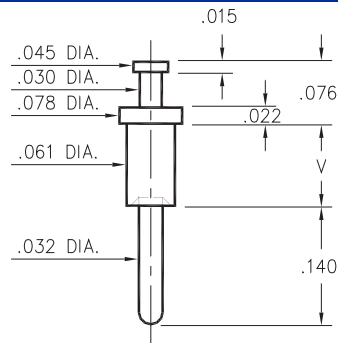
2318



- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

2318-X-00-XX-00-00-07-0
Swage mount in .062 hole

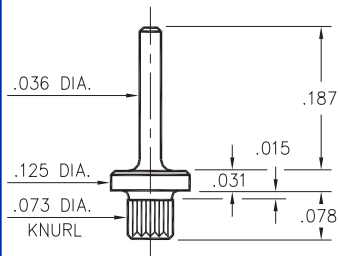
2309



- X -	Board Thickness	Length V
1	.031	.054
2	.062	.084
3	.094	.115
4	.125	.147

2309-X-00-XX-00-00-07-0
Swage mount in .064 hole

2514



2514-2-00-XX-00-00-07-0
Press-fit in .070 mounting hole

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: $\pm .005$
DIAMETERS: $\pm .002$
ANGLES: $\pm 2^\circ$

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - 07 - 0

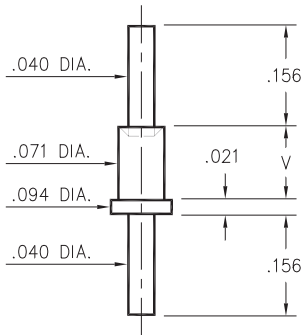
BASIC PART #



SPECIFY PIN FINISH:

- 01 200 μ " TIN/LEAD OVER NICKEL
- ◇ 80 200 μ " TIN OVER NICKEL (RoHS)
- ◇ 44 300 μ " SILVER OVER COPPER (RoHS)
- ◇ 50 300 μ " ELECTRO-SOLDER (RoHS) (60/40 SnPb)

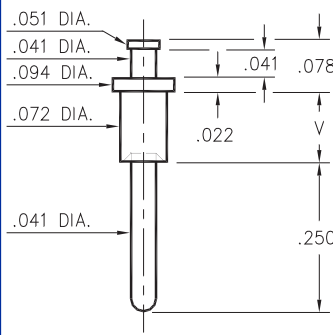
2319



2319-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113

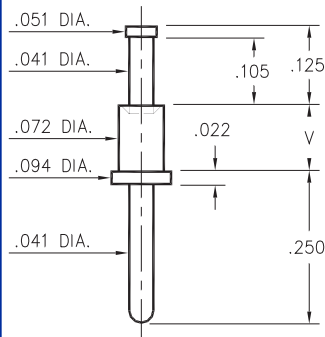
2313



2313-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.084
3	.094	.113
4	.125	.145

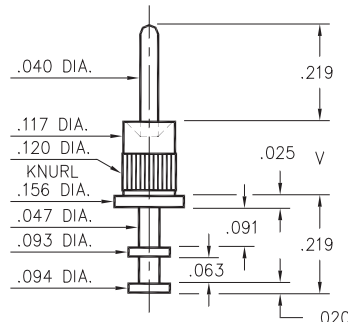
2321



2321-X-00-XX-00-00-07-0
Swage mount in .076 hole

- X -	Board Thickness	Length V
1	.031	.051
2	.062	.082
3	.094	.113
4	.125	.145

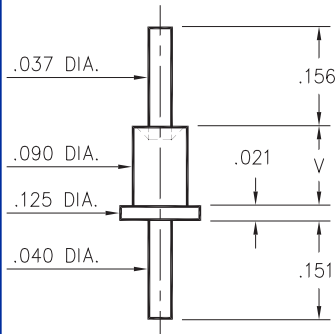
2706



2706-X-00-XX-00-00-07-0
Swage mount in .120 hole

- X -	Board Thickness	Length V
1	.031	.063
2	.062	.093
3	.094	.125
4	.125	.156

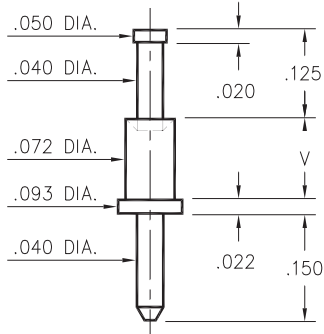
2530



2530-X-00-XX-00-00-07-0
Swage mount in .094 hole

- X -	Board Thickness	Length V
2	.062	.094
3	.094	.125
4	.125	.156

3156



3156-X-00-XX-00-00-08-0
Swage mount in .076 hole

Basic Part Number	Board Thickness	Length V
3156-1	.031	.051
3156-2	.062	.082
3156-3	.094	.113
3156-4	.125	.145

SPECIFICATIONS

PIN MATERIAL:
Brass Alloy 360, 1/2 Hard
Swage pins are annealed

DIMENSION IN INCHES
TOLERANCES ON:
LENGTHS: ±.005
DIAMETERS: ±.002
ANGLES: ± 2°

ORDER CODE: XXXX - X - 00 - XX - 00 - 00 - XX - 0

BASIC PART #

SPECIFY PIN FINISH:

- 01 200μ" TIN/LEAD OVER NICKEL
- ◇ 80 200μ" TIN OVER NICKEL (RoHS)
- ◇ 44 300μ" SILVER OVER COPPER (RoHS)
- ◇ 50 300μ" ELECTRO-SOLDER (RoHS) (60/40 SnPb)



THE "MULTI-FINGER" CONTACT

Mill-Max makes pin receptacles by press-fitting a "multi-finger" spring contact into a machined shell. A selection of 34 contact types are pre-tooled for those who wish to design custom receptacles. This extensive family of contacts will accept round pins ranging from .008" to .102" diameter, as well as rectangular component leads and square wraposts, where the effective diameter is taken as the diagonal dimension of the lead.

Many contacts are interchangeable within a given shell, and so the contact selector chart has been organized by alternate contact groupings. Standard receptacles found in this catalog can be easily assembled with alternate contacts to suit special applications, for example: low insertion force or high operating temperature.

Contact Groups	Contact Type	Accepts Minimum Pin Diameter	Accepts Maximum Pin Diameter	Contact Compliance	Contact Length	Number of Fingers	Contact Material	Current Rating (For 10°C ΔT)		
No Alternate	#04	.008	.013	.003	.053	3	BeCu	2A		
No Alternate	#10	.012	.017		.060	6				
A	#09	.015	.018	.002	.051	3	BeCu	3A		
	#11		.020	.003	.075					
	#21		.022	.004					.062	4
	#05			.005						6
B	#12		.025	.003	.083	4			BeNi	
	#22			.009		6			BeCu	
C	#30		.026	.004	.083	6	BeCu			
	#38			.008						
	#32		.007	.113		4				BeNi
	#35								.005	
#43	.006		.083	6	BeCu					
No Alternate	#15	.022	.032	.004		.113	4	BeNi		
D	#06		.007	.083			6		BeCu	
	#26		.005							
	#16		.034		.006					
E	#47	.025	.037	.011	.062	4	BeCu	8A		
	#36	.022	.042	.022	.120					
	#49	.032	.046	.006	.125					
	#34			.010	.120				BeNi	
#24		.009								
F	#02	.040	.050	.006	.084	6	BeCu	20A		
	#28	.042	.052	.005						
J	#42	.053	.063	.004	.150	4		BeCu	11.2A	
	#03	.040	.060	.010						
G	#23	.045	.065	.008	.100	6	BeNi	15A		
	#13	.048	.064	.010	.127	4			BeCu	
	#33			.008						
H	#07	.065	.082	.013	.150	6	BeCu	18A		
	#27			.012						
	#14		.085	.014						
No Alternate	#08	.084	.102	.011	.122	6				

CONTACT SPECIFICATIONS

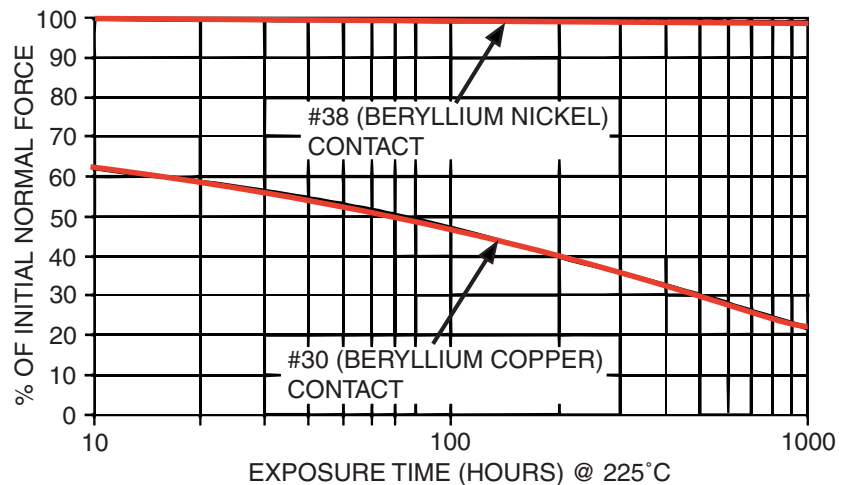
COMPLIANCY (δ)

The Mill-Max “multi-finger” contact exhibits wide compliance, eg. the ability of any single contact to accept a broad range of round pins as well as rectangular or square component leads. This ability is referred to as the contact’s “compliance”. The compliance factor (δ) specifies the re-configured operating range after the initial insertion of the largest permissible mating pin. For example: the # 34 contact has an initial operating range from .032” to .047” diameter pins, and a compliance of .010”; but after insertion of a .047” pin, the contact is sized, and the minimum pin acceptance becomes .047” - .010” = .037”. Thus, the new operating range becomes .037” to .047”.

The insertion/extraction/normal force characteristics that follow were derived using 30 μ ” gold plated contact and polished steel, gauge pins having a bullet-shaped tip. The curves represent typical average values. The charts only guide you in selecting a clip that is close to your specification. Your results may vary, so for your specification, **log onto www.mill-max.com to obtain complimentary samples of a receptacle assembly for your evaluation.**

CONTACT MATERIAL AND STRESS RELAXATION AT HIGH TEMPERATURE

Mill-Max contacts are made from either beryllium copper or beryllium nickel that has been heat treated to achieve ultimate spring properties. The graph illustrates how beryllium copper loses its spring properties over time at a high temperature (225°C). Thus, for burn-in applications and continuous operation above 150°C, beryllium nickel should be substituted for beryllium copper.



NORMAL FORCE

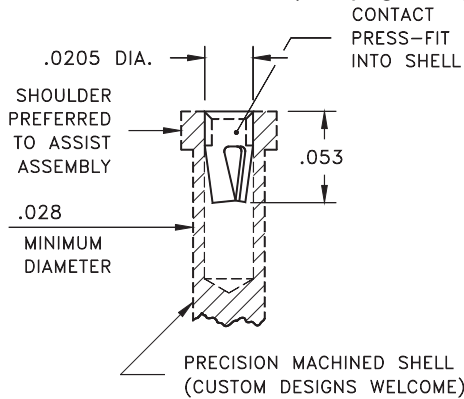
Normal force is the force with which each finger of the “multi-finger” contact grips the mating pin or component lead. For normal forces below 30 grams, gold on both the pin and contact is recommended. For normal forces above 100 grams, tin finish has proven to be very reliable.

CURRENT RATING

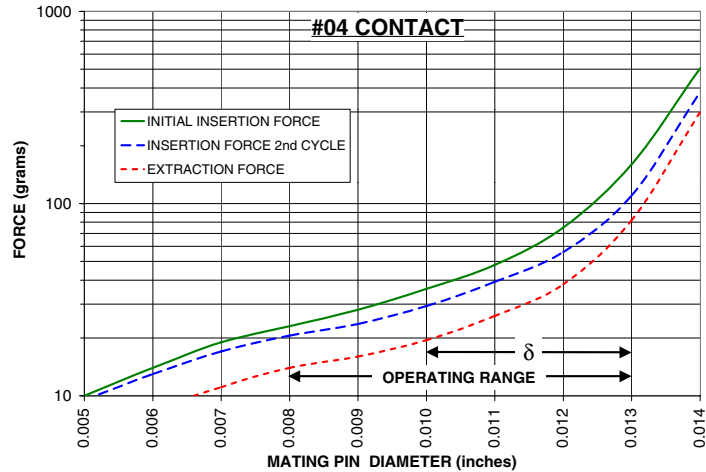
Current rating for each contact group can be found in the contact selector chart on page 214. This current rating (for a 10° C temperature rise above ambient) is conservative since it rates an individual pin/ receptacle pair in the free air. For all practical applications, the current rating will be higher because of the heat sinking ability of wires and circuit traces attached to the pin and receptacles.

#04 CONTACT

FOR .008-.013 DIAMETER PINS (δ =.003)
3-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

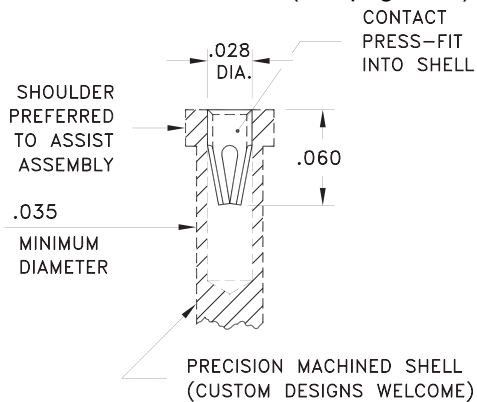


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

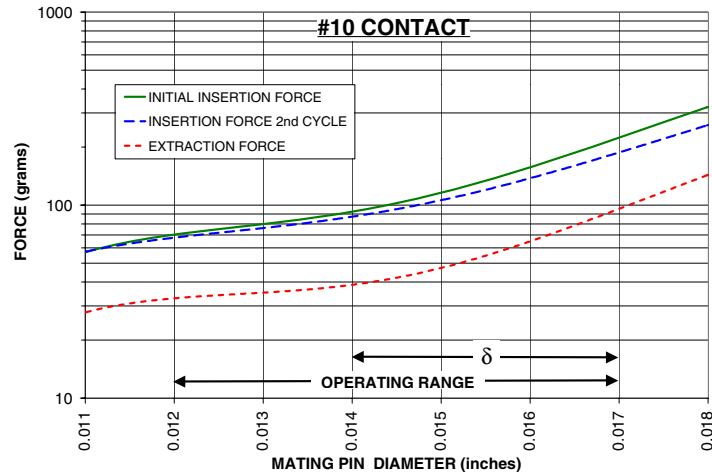
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#10 CONTACT

FOR .012-.017 DIAMETER PINS (δ =.003)
6-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

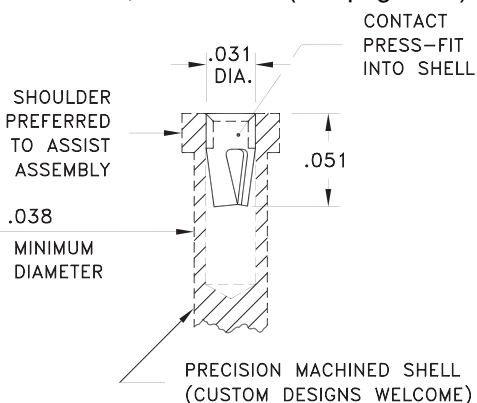


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

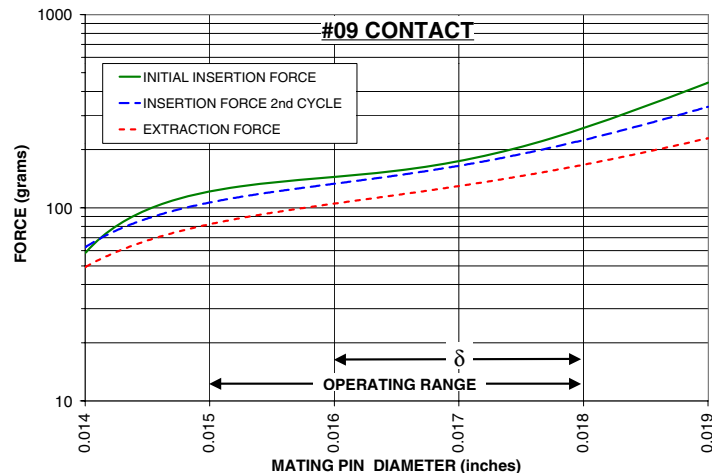
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#09 CONTACT

FOR .015-.018 DIAMETER PINS (δ =.002)
3-FINGER, GROUP A (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

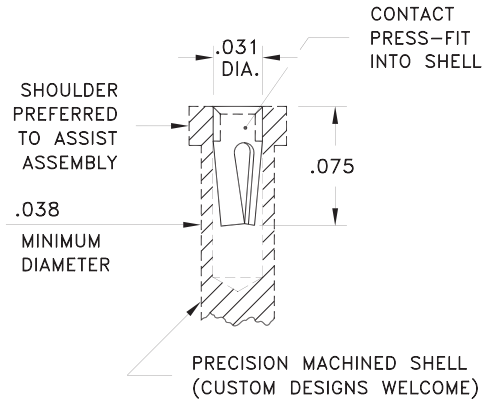


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

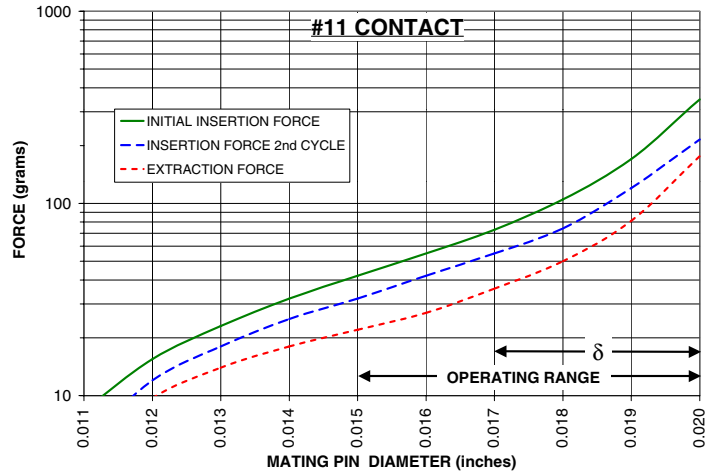
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#11 CONTACT

FOR .015-.020 DIAMETER PINS (δ =.003)
3-FINGER, GROUP A (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

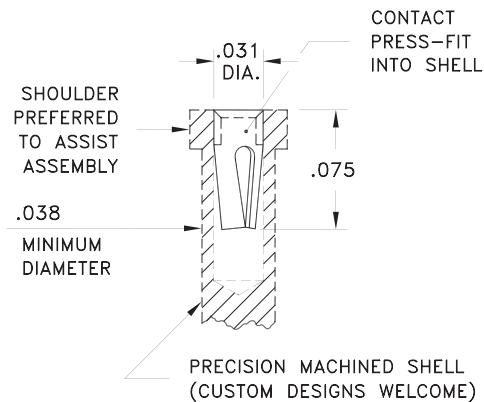


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

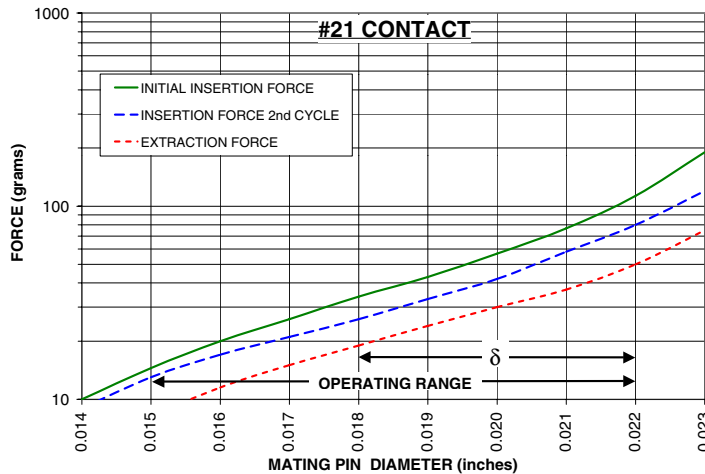
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#21 CONTACT

FOR .015-.022 DIAMETER PINS (δ =.004)
3-FINGER, GROUP A (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

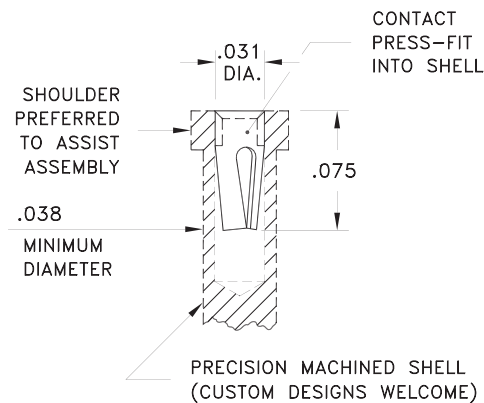


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

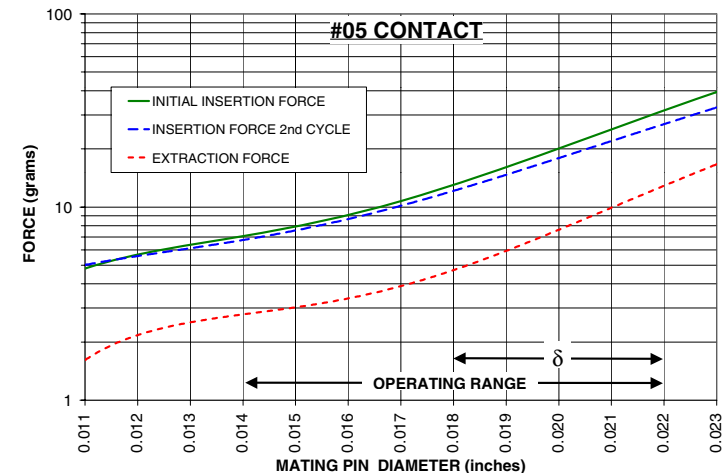
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#05 CONTACT

FOR .015-.022 DIAMETER PINS (δ =.004)
3-FINGER, GROUP A (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

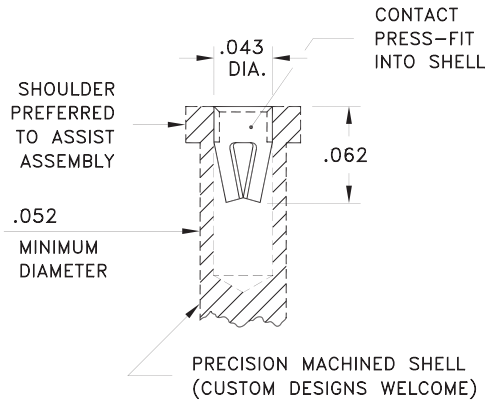


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

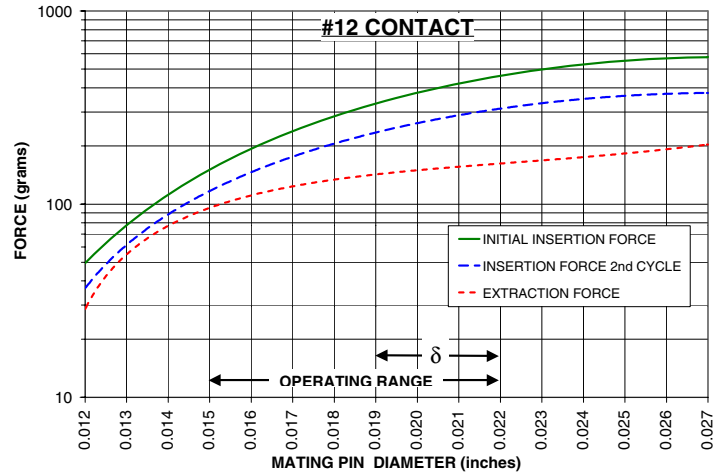
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#12 CONTACT

FOR .015-.022 DIAMETER PINS (δ =.003)
4-FINGER, GROUP B (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

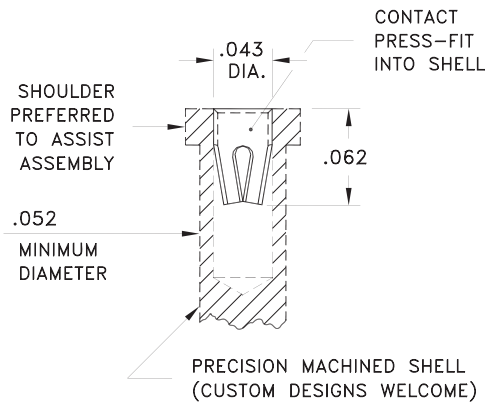


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

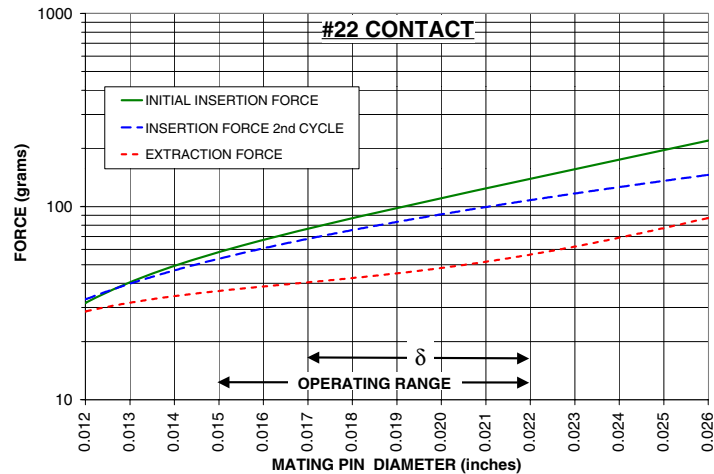
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#22 CONTACT

FOR .015-.022 DIAMETER PINS (δ =.005)
6-FINGER, GROUP B (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

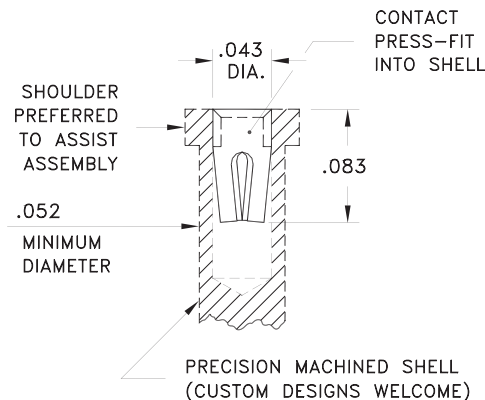


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

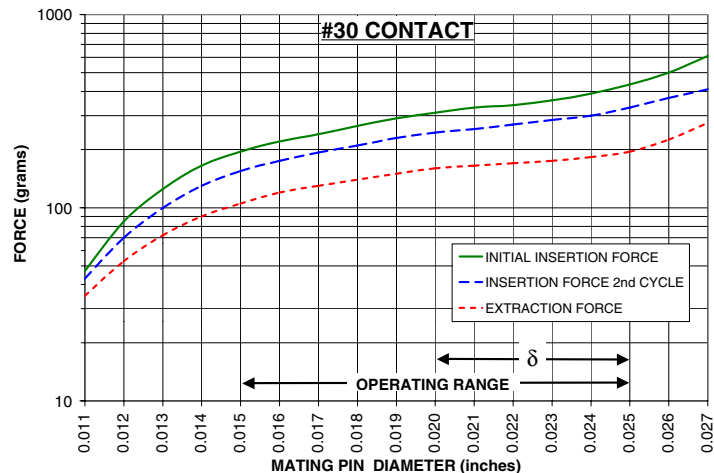
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#30 CONTACT

FOR .015-.025 DIAMETER PINS (δ =.005)
4-FINGER, GROUP C (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

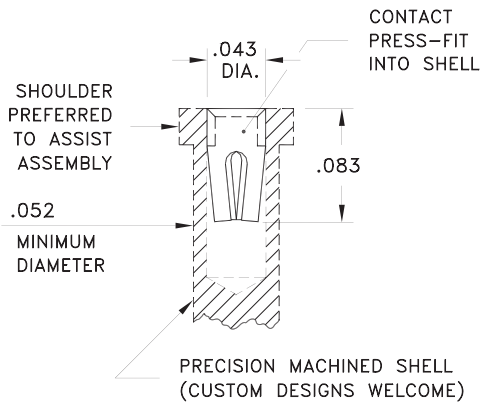


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

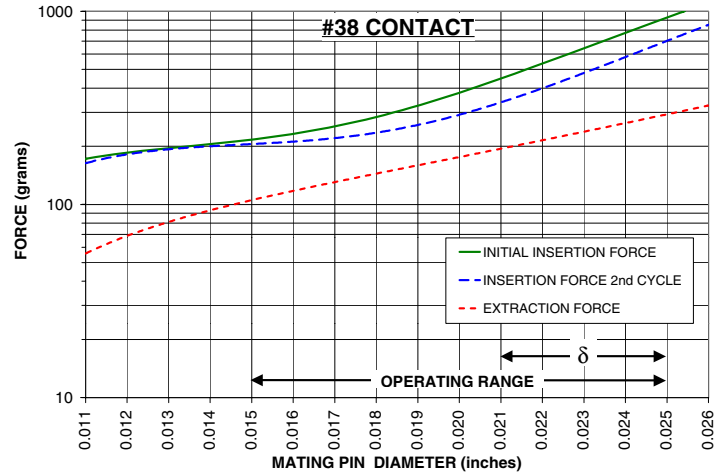
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#38 CONTACT

FOR .015-.025 DIAMETER PINS (δ =.004)
4-FINGER, GROUP C (see page 214)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 360, Heat Treated

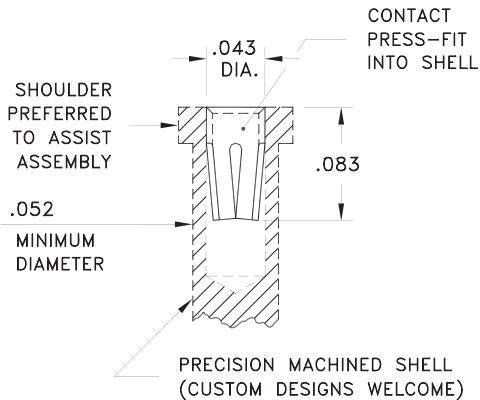


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

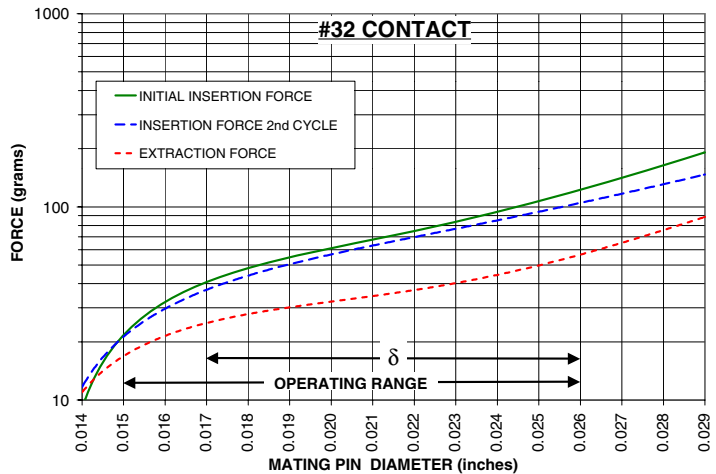
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#32 CONTACT

FOR .015-.026 DIAMETER PINS (δ =.009)
6-FINGER, GROUP C (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

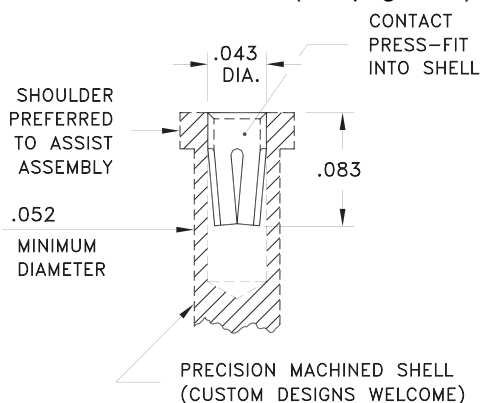


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

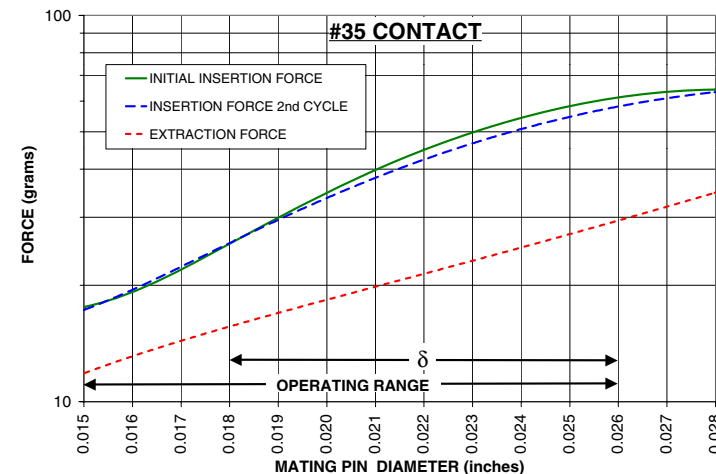
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#35 CONTACT

FOR .015-.026 DIAMETER PINS (δ =.008)
6-FINGER, GROUP C (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

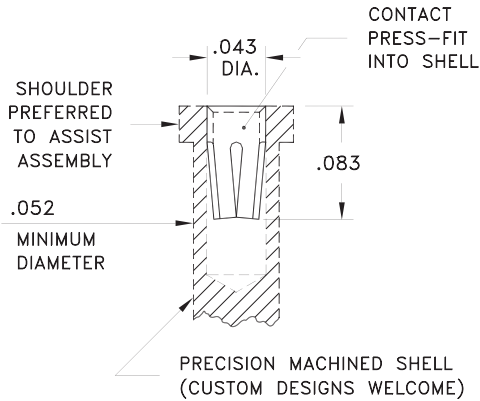


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

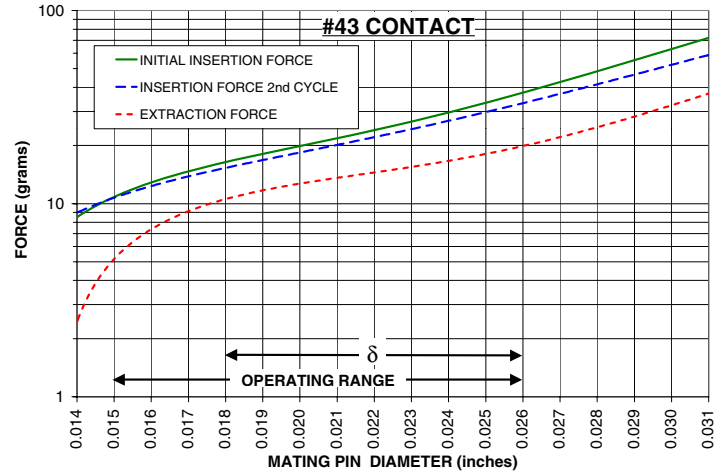
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#43 CONTACT

FOR .015-.026 DIAMETER PINS (δ =.008)
6-FINGER, GROUP C (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

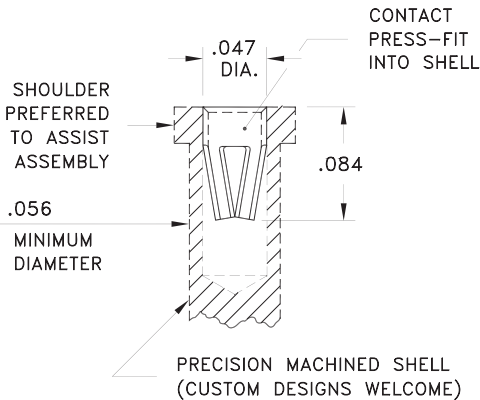


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

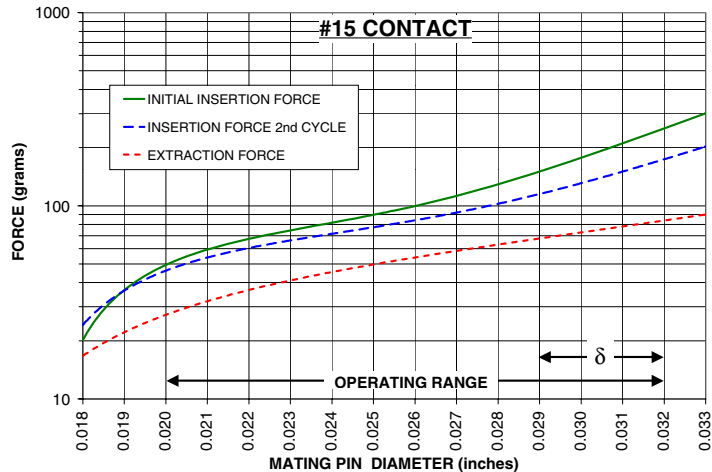
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#15 CONTACT

FOR .022-.032 DIAMETER PINS (δ =.004)
6-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

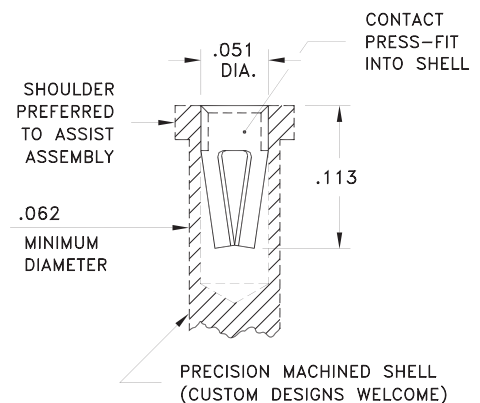


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

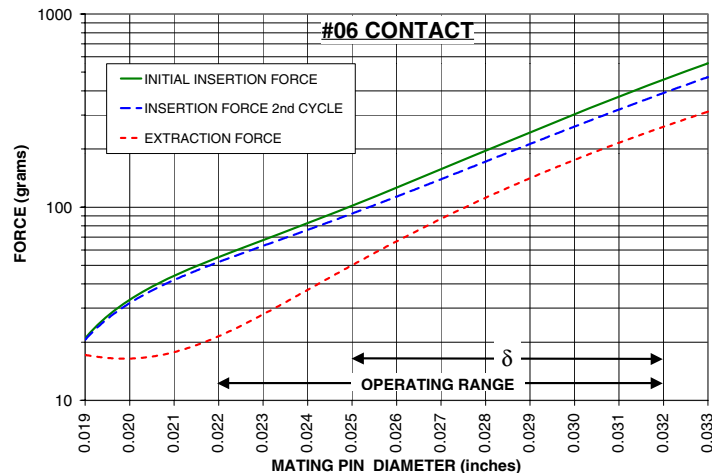
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#06 CONTACT

FOR .022-.032 DIAMETER PINS (δ =.007)
4-FINGER, GROUP D (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

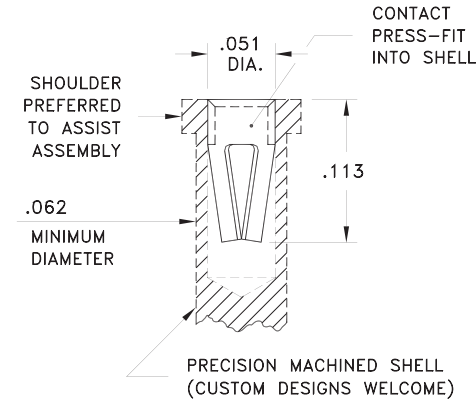


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

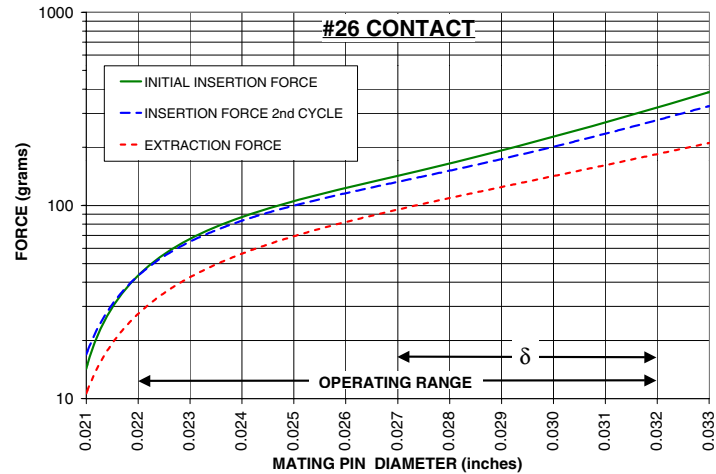
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#26 CONTACT

FOR .022-.032 DIAMETER PINS (δ =.005)
4-FINGER, GROUP D (see page 214)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 360, Heat Treated

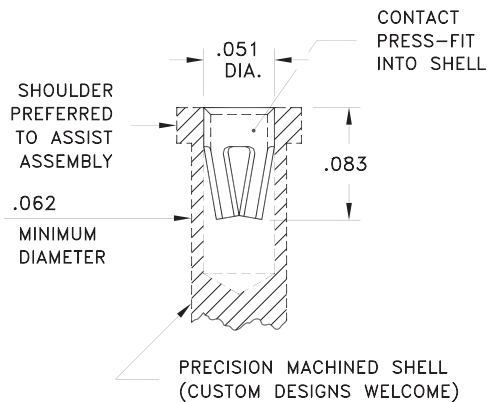


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

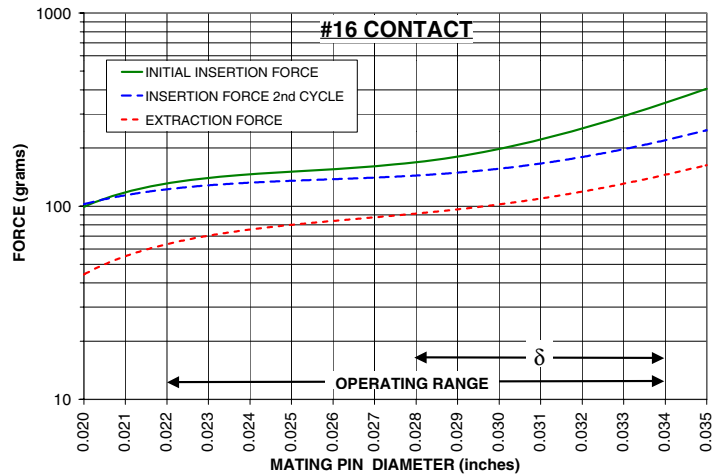
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#16 CONTACT

FOR .022-.034 DIA. & .025 SQ. (δ =.006)
6-FINGER, GROUP D (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

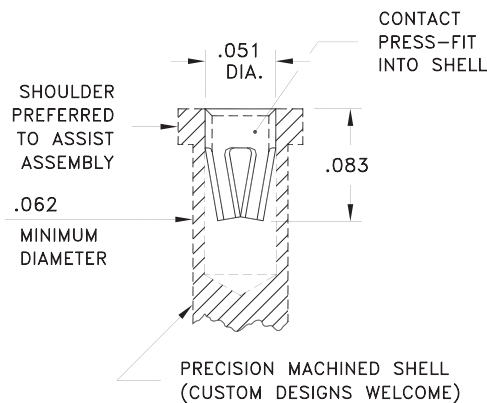


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

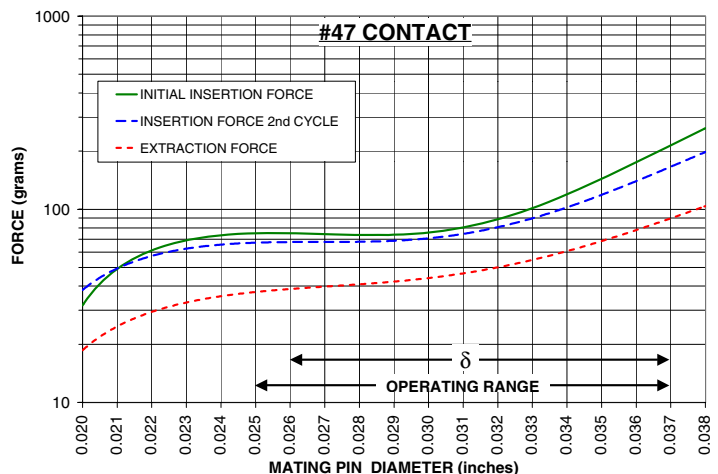
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#47 CONTACT

FOR .025-.037 DIA. & .025 SQ. (δ =.011)
6-FINGER, GROUP D (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

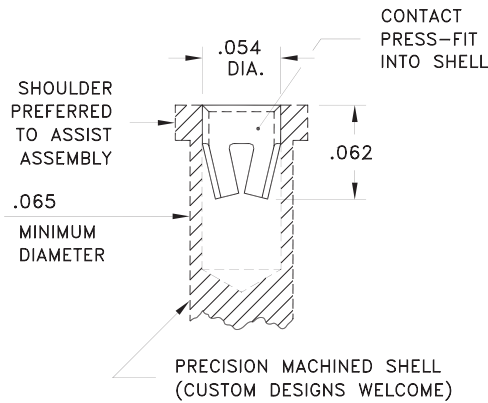


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

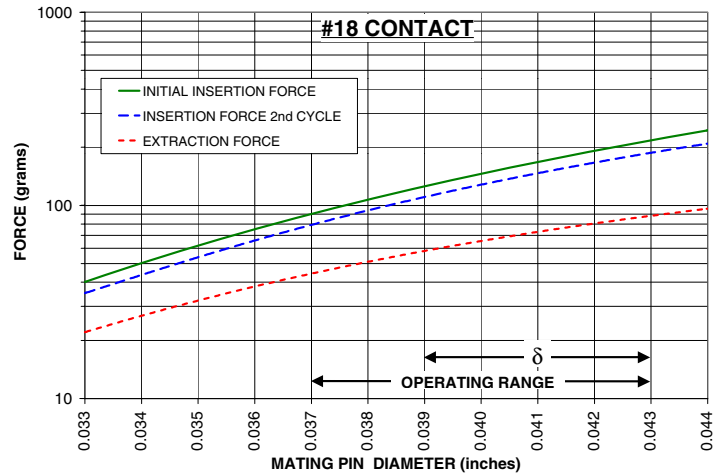
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#18 CONTACT

FOR .037-.043 DIAMETER PINS ($\delta = .004$)
6-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

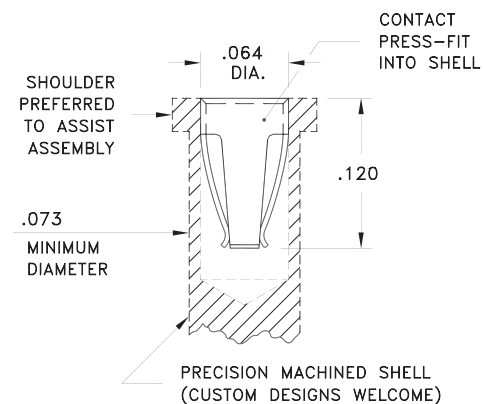


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

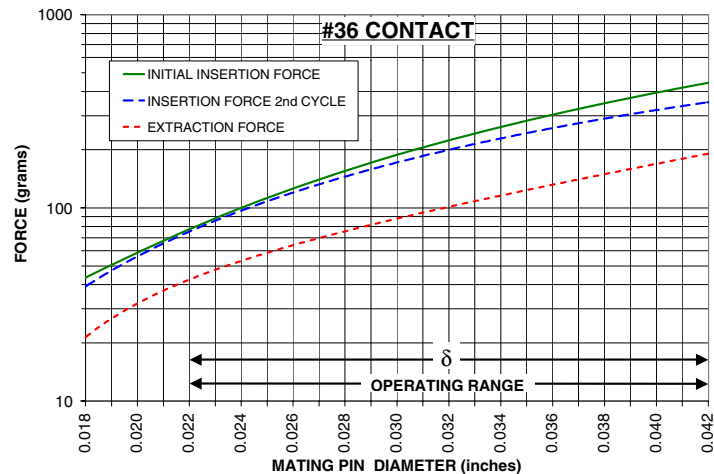
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#36 CONTACT

FOR .022-.042 DIAMETER PINS ($\delta = .022$)
4-FINGER, GROUP E (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

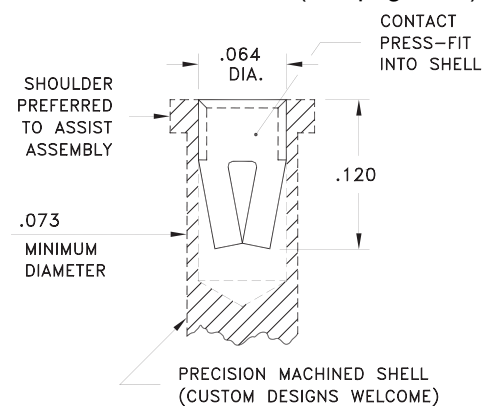


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

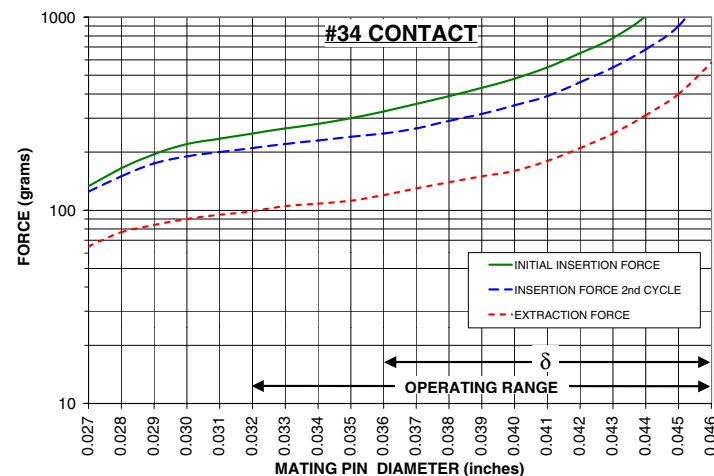
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#34 CONTACT

FOR .032-.046 DIAMETER PINS ($\delta = .010$)
4-FINGER, GROUP E (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

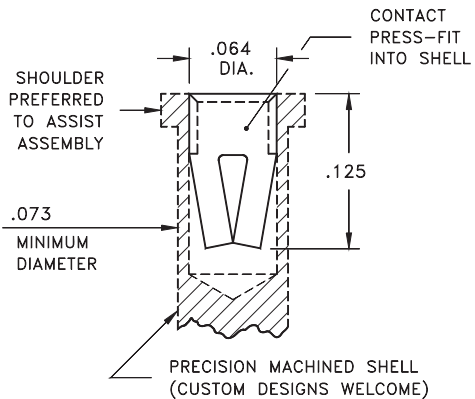


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

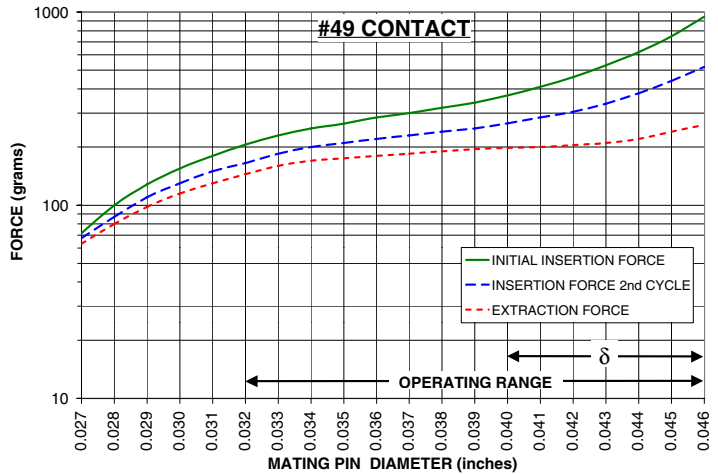
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#49 CONTACT

FOR .032-.046 DIAMETER PINS (δ =.006)
4-FINGER, GROUP E (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

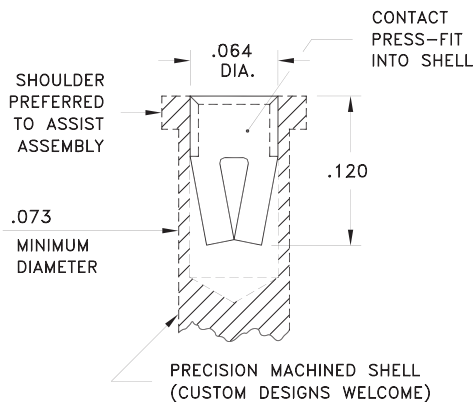


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

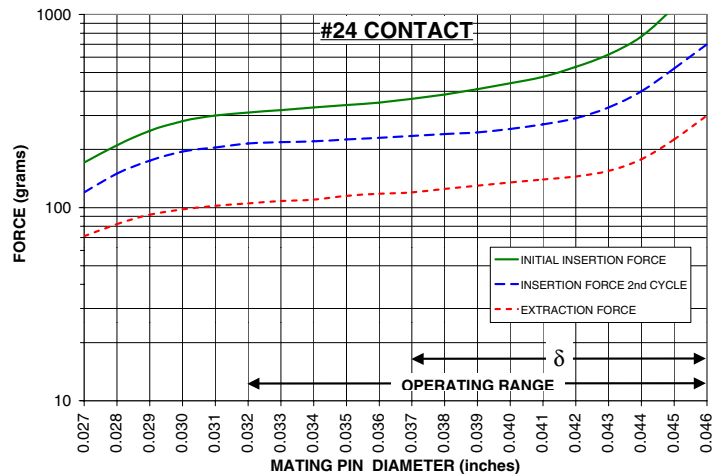
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#24 CONTACT

FOR .032-.046 DIAMETER PINS (δ =.009)
4-FINGER, GROUP E (see page 214)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 360, Heat Treated

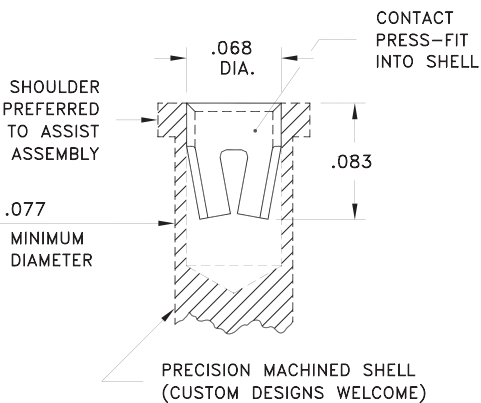


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

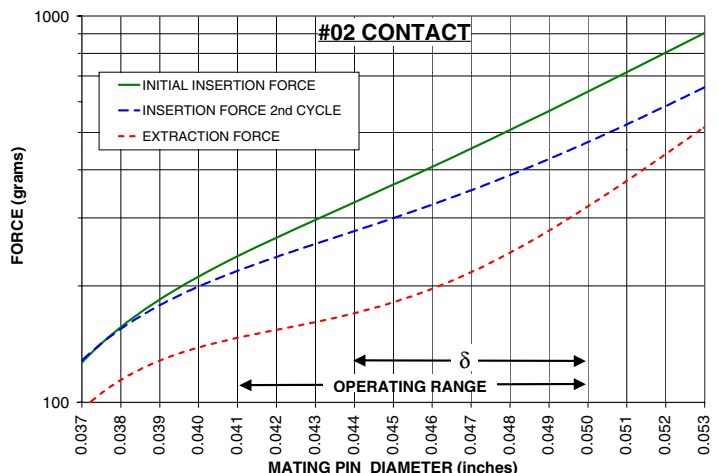
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#02 CONTACT

FOR .040-.050 DIAMETER PINS (δ =.006)
6-FINGER, GROUP F (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

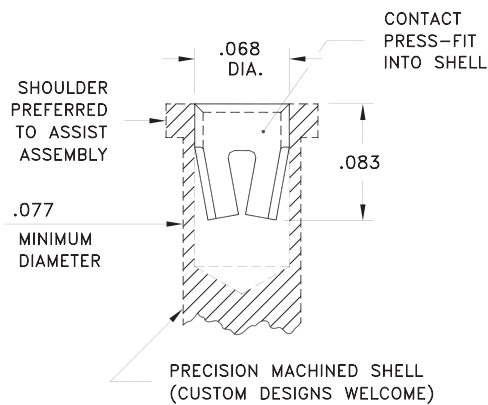


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

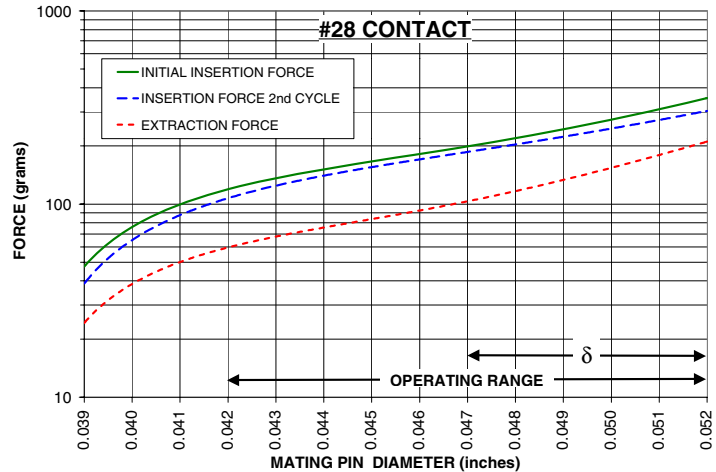
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#28 CONTACT

FOR .042-.052 DIAMETER PINS (δ =.005)
6-FINGER, GROUP F (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

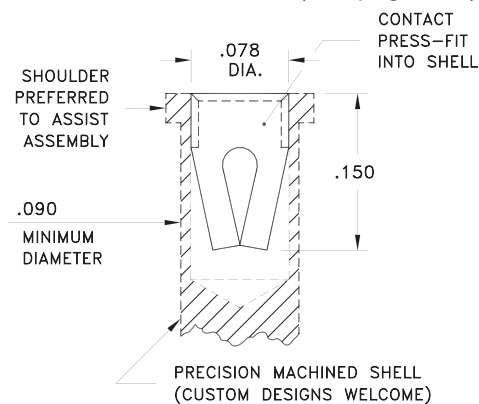


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

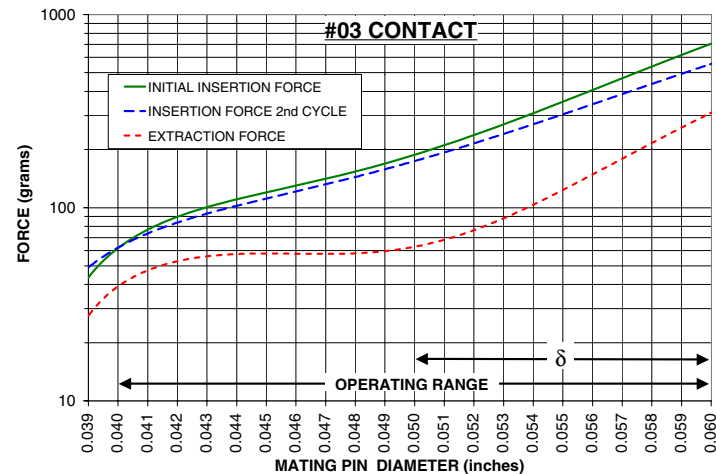
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#03 CONTACT

FOR .040-.060 DIAMETER PINS (δ =.010)
4-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

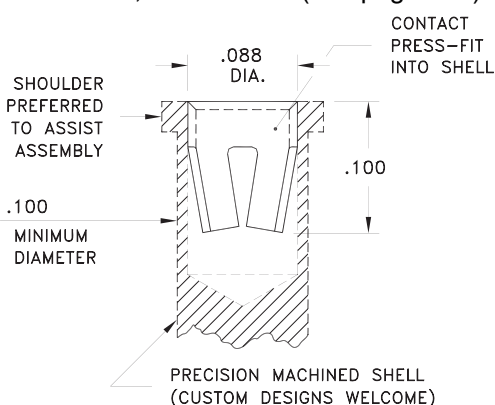


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

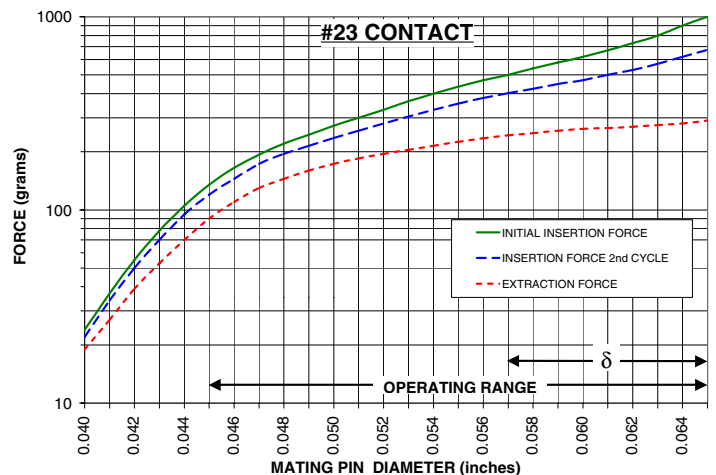
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#23 CONTACT

FOR .045-.065 DIAMETER PINS (δ =.008)
6-FINGER, GROUP G (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

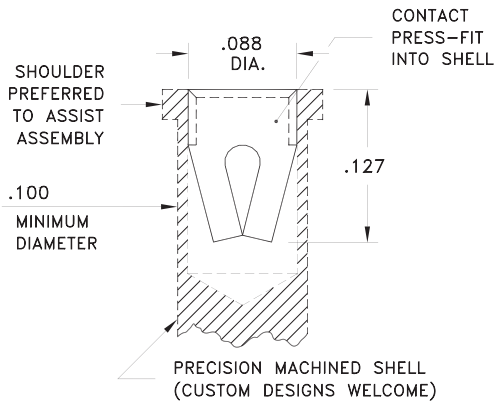


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

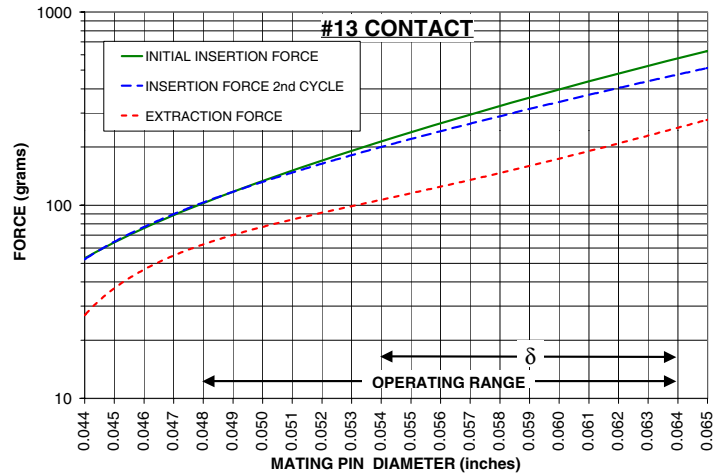
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#13 CONTACT

FOR .048-.064 DIAMETER PINS (δ =.010)
4-FINGER, GROUP G (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

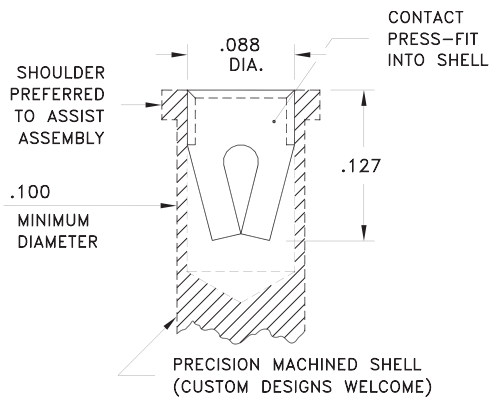


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

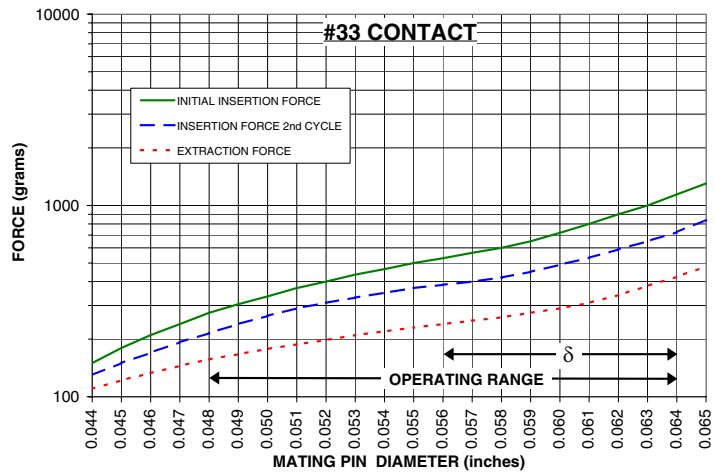
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#33 CONTACT

FOR .048-.064 DIAMETER PINS (δ =.008)
4-FINGER, GROUP G (see page 214)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 360, Heat Treated

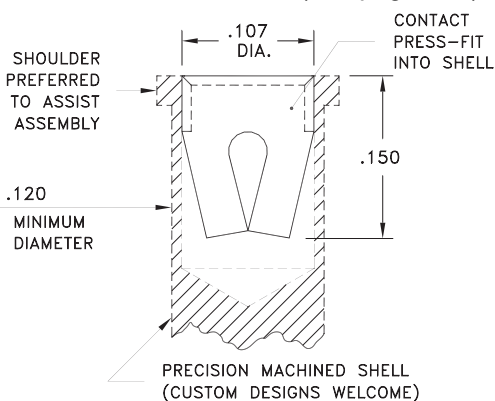


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

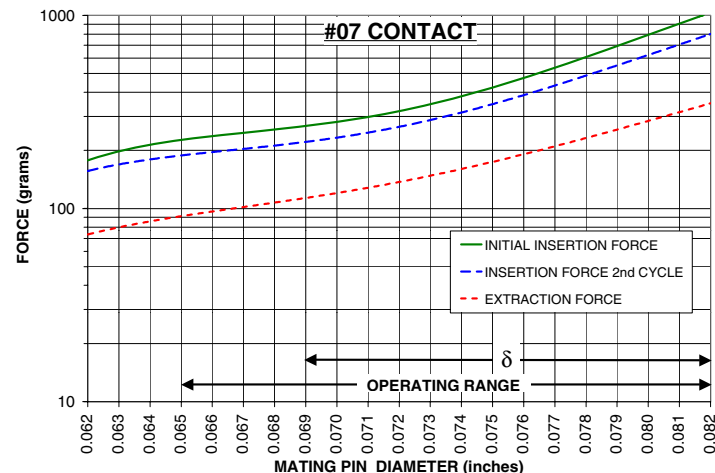
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#07 CONTACT

FOR .065-.082 DIAMETER PINS (δ =.013)
4-FINGER, GROUP H (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

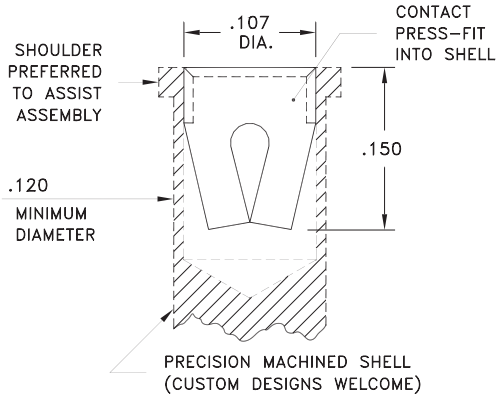


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

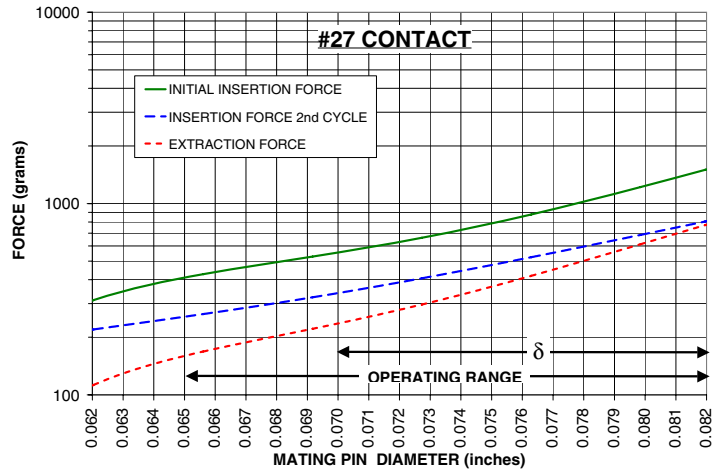
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#27 CONTACT

FOR .065-.082 DIAMETER PINS ($\delta=.012$)
4-FINGER, GROUP H (see page 214)



CONTACT MATERIAL:
BERYLLIUM NICKEL Alloy 360, Heat Treated

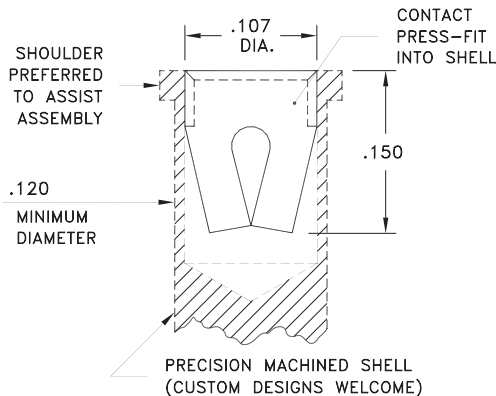


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

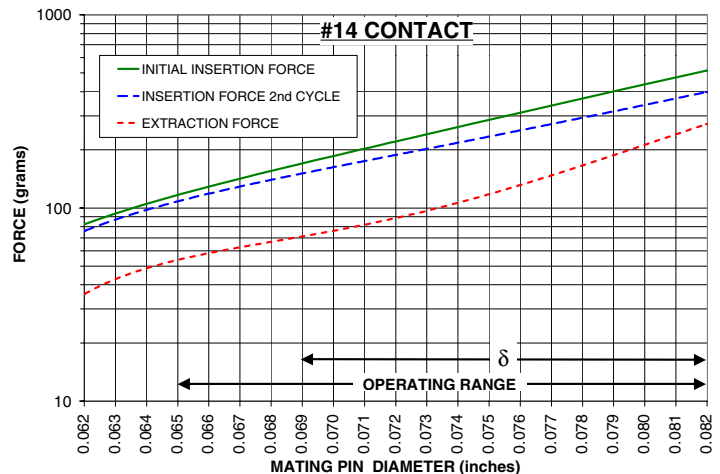
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#14 CONTACT

FOR .065-.082 DIAMETER PINS ($\delta=.014$)
4-FINGER, GROUP H (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated

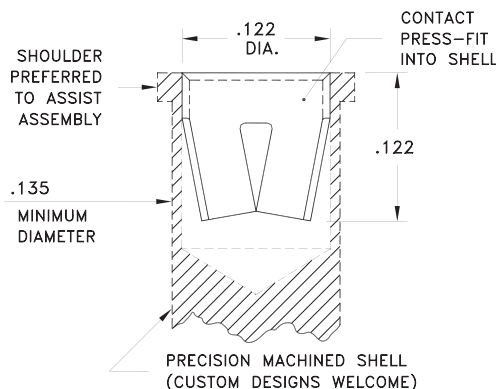


The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

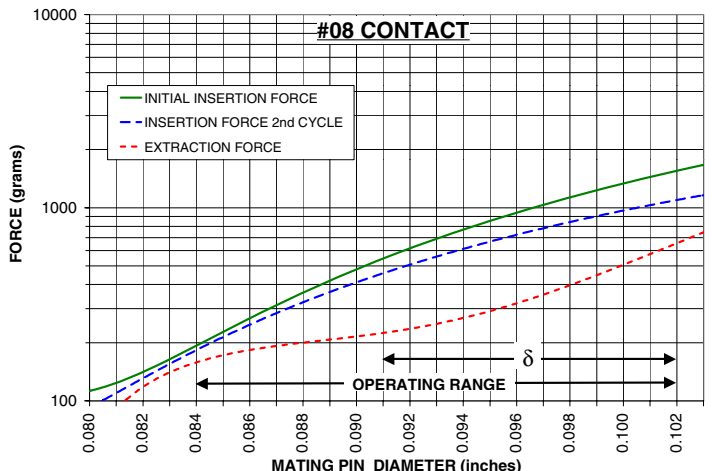
The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.

#08 CONTACT

FOR .084-.102 DIAMETER PINS ($\delta=.011$)
6-FINGER (see page 214)



CONTACT MATERIAL:
BERYLLIUM COPPER Alloy 172, Heat Treated



The insertion/extraction/normal force characteristics above were derived using 30 microinch gold plated contact and polished steel gauge pins having a bullet-shaped tip.

The curves represent typical average values; they are best used to compare the differences between similar size contacts and to guide you in selecting one that is suitable for your application. Your results may vary, so for your specification, we encourage you to obtain complimentary samples for your evaluation.



DETAILED PROPERTIES OF MILL-MAX RAW MATERIALS (including RoHS 2002/95/EC requirements)

PROPERTIES OF METALS USED BY MILL-MAX

Copper alloy rod and wire for precision-machined pins, receptacles & solder terminals (**Alloys C36000 & C54400 contain 3 to 4% lead to permit "free machining" and is permitted by EC Directive 2002/95 Annex 6; so all pin materials are RoHS compliant).**

BRASS ALLOY 360 (UNS C36000) per ASTM B 16
PHOSPHOR BRONZE Alloy 544 (UNS C54400) per ASTM B 139
TELLURIUM COPPER Alloy 145 (UNS C14500) per ASTM B 301

Spring alloy strip for stamping "multi-finger" spring contacts
BERYLLIUM COPPER Alloy 172 (UNS C17200) per ASTM B 194
BERYLLIUM NICKEL Alloy 360 (UNS N03360)

Properties of BRASS:

Stock diameters available: .062/.072/.078/.093/.125/.156/.187/.250"
 Chemical composition: Cu 61.5%, Zn 35.4%, Pb 3.1%
 Temper as machined: H02/H04
 Modulus of elasticity: 14×10^6 psi
 Tensile strength: $70-90 \times 10^3$ psi
 Hardness as machined: 80-90 Rockwell B

After machining, brass parts are often annealed (softened) for subsequent bending, swaging or crimping. A partial anneal down to 60-10 RB is recommended for 90° bends, a full anneal down to 35±15 RB is recommended for pins or terminals that are swaged (riveted) to a circuit board or crimped to a wire.

Density: .307 lbs/in³
 Electrical conductivity: 26% IACS*
 Melting point: 900°C/885°C (liquidus/solidus)

Properties of PHOSPHOR BRONZE:

Used for pins requiring more durability than brass.
 Stock diameters available: .072/.078"
 Chemical composition: Cu 88%, Sn 4%, Zn 4%, Pb 4%
 Temper as machined: H04
 Modulus of elasticity: 15×10^6 psi
 Tensile strength: $70-80 \times 10^3$ psi
 Hardness as machined: 83 Rockwell B
 Density: .321 lbs/in³
 Electrical conductivity: 19% IACS*
 Melting point: 1000°C/930°C (liquidus/solidus)

Properties of TELLURIUM COPPER:

Used for pins requiring a higher current carrying capacity than brass or phosphor bronze.
 Stock diameters available: .079/.093/.125/.156"
 Chemical composition: Cu 99.44%, Te .55%, P .008%
 Temper as machined: H02
 Modulus of elasticity: 17×10^6 psi
 Tensile strength: 43×10^3 psi
 Hardness as machined: 43 Rockwell B
 Density: .323 lbs/in³
 Electrical conductivity: 93% IACS*
 Thermal conductivity: 91% IACS*
 Melting point: 1075°C/1051°C (liquidus/solidus)

Properties of BERYLLIUM COPPER:

Chemical composition: Cu 98.1%, Be 1.9%
 Temper as stamped: TD01
 Properties after heat treatment (TH01):
 Modulus of Elasticity: 19×10^6 psi
 Tensile Strength: $175-205 \times 10^3$ psi
 Yield Strength (0.2% offset): $150-185 \times 10^3$ psi
 Elongation: 3-10%
 Stress Relaxation†: 96% of stress remains after 1,000 hours @ 100 °C
 70% of stress remains after 1,000 hours @ 200 °C

Hardness: 36-43 Rockwell C

Density: .298 lbs/in³
 Electrical Conductivity: 22% IACS*
 Melting point: 980°C/865°C (liquidus/solidus)

†Since BeCu loses its spring properties over time at high temperatures; it is rated for continuous use up to 150°C. For "down-hole" and "burn-in" applications up to 300°C, Mill-Max offers four contacts (#24, #26, #27 & #38) made from Beryllium Nickel Alloy 360 (UNS N03360)

Properties of BERYLLIUM NICKEL:

Chemical composition: Ni 97.6%, Be 1.9%, Ti 0.5%
 Modulus of Elasticity: $27-30 \times 10^6$ psi

Tensile Strength: 245×10^3 psi min.
 Yield Strength (0.2% offset): 200×10^3 psi min.
 Elongation: 9% min.
 Hardness: 49 Rockwell C
 Density: .294 lbs/in³
 Electrical Conductivity: 7% IACS*
 Melting point: 1,325°C/1,195°C (liquidus/solidus)

*International Annealed Copper Standard, i.e.: as a % of pure copper.

PROPERTIES OF PLASTICS USED BY MILL-MAX

Standard plastics used for catalog products:

Injection Molded

PCT Polyester, High Temp (Thermx CG933, black)
Nylon46, High Temp (Stanyl TE250F6 {30% glass} or TE250F9 {45% glass}, black)
PPS, High Temp (Ryton R-4-200)

Machined

FR-4 Epoxy/Glass Laminate. Thicknesses available: .010", .020", .031", .047", .062", .093", .125" (natural color, beige)
FR-4 Epoxy/Glass Laminate, .055" thick (black)
G-30 Polyimide/Glass Laminate, .062" thick (natural color, brown)

TEMPERATURE COMPARISON OF MOLDED INSULATORS

MATERIAL	BRAND	GRADE	HEAT DEFLECTION TEMP. (per ASTM D 648)
PCT Polyester	Thermx	CG-933	529°F (276°C) @ 66 psi
Nylon 46	Stanyl	TE250-F6 or F9	554°F (290°C) @ 264 psi
PPS	Ryton	R-4-200	>500°F (>260°C) @ 264 psi

Note: Materials above 446°F (230°C) are considered suitable for "eutectic" reflow soldering, above 500°F (260°C) for "lead-free" reflow soldering.

PCT is the standard plastic used with RoHS "lead-free" plated pins.

MILL-MAX STANDARD PLATINGS (FINISHES):

GOLD per ASTM B 488, Type 1 (99.7% min. gold),
 Code C (130-200 HK {Knoop hardness}),
 Class (thickness) per customer's requirements
SILVER per ASTM B 700, Type 1 (99.9% min. silver),
 Grade B (Bright),
 Class S (anti-tarnish treatment),
 Thickness (7.5µm/300µ") used for solder terminals)
TIN/LEAD (93/7) per ASTM B 545 (Appendix X6.3.2.5 to eliminate whisker growth)
 Class A (2.5µm/100µ")
 or Class B (5µm/200µ"),
 Bright finish (Matte available to order)

ELECTRO-SOLDER (60/40) per ASTM B 579, SC2 (8µm/300µ"),
 Bright finish (Matte available to order)

Standard finishes available for RoHS "lead-free" applications:

GOLD per ASTM B 488, Type 1 (99.7% min. gold),
 Code C (130-200 HK {Knoop hardness}),
 Class (thickness) per customer's requirements
TIN (100%) per ASTM B 545, Class A (2.5µm/100µ")
 or Class B (5µm/200µ"),
 Matte finish (With whisker and oxide inhibitors and a nickel underplate)

ALL MILL-MAX PARTS REQUIRE AN UNDERPLATE:

Brass parts need a barrier plate to prevent zinc diffusion, 50µ" min. nickel or 100µ" min. copper is recommended by ASTM B 545 & 579. ASTM B 488 also recommends a 50µ" min. nickel barrier plate beneath gold to prevent copper diffusion inherent with all copper alloy products.

MILL-MAX STANDARD UNDERPLATES:

NICKEL per ASTM B 689, Type 2 (Bright),
 Class 1.25 (1.25µm/50µ") or Class 2.5 (2.5µm/100µ")

Also available for military & "non-magnetic" applications:

COPPER per ASTM B 734, Class 2.5 (2.5µm/100µ")
 or Class 5 (5µm/200µ")

Annealing - Refers to a brass pin that has been softened by heat treatment which makes the pin easier to crimp, rivet (swage) or bend.

Carrier - An assembly consisting of an insulator with male pins onto which receptacles are loaded. This assembly is employed as a fixture during the soldering operation and is then removed leaving a PC board populated with individual receptacles. Female carriers that load male pins are also available for special applications.

Clip - See Contact.

Closed Entry - Refers to female contacts where the front rim prevents the insertion of an oversize pin that would otherwise damage the contact.

Compliancy - Contact's ability to accept multiple insertions and extractions of a wide range of pin shapes and sizes while retaining its original configuration.

Compliant Press Fit - Method of mounting an interconnect component to a PC board where a drilled and slotted receptacle or pin is pressed into a plated-through-hole without damaging the hole.

Constant Usage Temperature (CUT) - Constant Usage Temperature is a measure of the maximum temperature that a material may be exposed to for long periods of time, 1000 - 1500 hrs., before degradation of its electrical and mechanical properties occurs.

Contact (and Contact Clip) - Multi-finger spring insert of a receptacle which completes the electrical path between a male pin and a female receptacle. Also referred to as a clip.

Contact Rating - Current carrying capability of a contact measured in amperes with respect to temperature rise above ambient.

Contact Resistance - The electrical resistance at the point of connection determined by the contact geometry, area of contact, plating and normal force.

Coplanarity - Refers to the measurement of multiple points and their distance from a respective plane. This is particularly useful for surface mount parts to determine the maximum amount of difference in the height of the surfaces that need to be soldered.

Electroplating - The electrodepositing of a metal coating on a conductive object such as a pin, shell, or contact clip.

Electro-vibratory Plating - An electroplating system where the parts are processed in a vibrating basket which ensures uniform plating thickness and avoids damage to delicate parts.

End Stackable - The ability for connectors to be mounted end to end while maintaining grid or spacing.

Extraction Force (or Withdrawal Force) - The force required to remove a lead from a contact.

Epoxy - Woven glass cloth epoxy laminate. Classified as a thermoset, the woven fibers of these materials enable them to withstand high temperatures without being damaged. Cut from large sheets of material, the insulator is then machined on a high speed drill/router, the same way as printed circuit boards are fabricated.

Electrostatic Discharge (ESD) - The momentary electric current that flows between two objects that may cause damage to electronic equipment.

Flash (Plating) - A very thin plating, usually less than 10 micro inches, only enough metal to uniformly cover the surface of the base metal.

Flatness - Sometimes used in place of coplanarity, flatness refers to the amount of variation of a plane or surface.

Floating Contact - In surface mount sockets, a receptacle designed to move up and down freely in an insulator to compensate for unevenly dispensed solder paste.

Free Machining Alloy - An alloy which is easy to machine, e.g. brass alloy 360.

Fretting - A form of corrosion caused by vibration.

Gas Tight Connection - An electrical connection of sufficient pressure to prevent the intrusion of a corrosive atmosphere into the contact area.

Heat Deflection Temperature (HDT) - An industry recognized test for comparing the short term effects of high temperature on plastics.

Heat Treating - The process of using specific heating and cooling cycles to alter the mechanical properties of an alloy. Generally, heat treating can harden or soften a metal depending on the material, the parameters used and the desired physical property.

Hex Press Fit - A method of press-fitting either a pin or receptacle, using a hexagonal cross section, into a plated through-hole without causing damage to the hole while still maintaining a gas tight seal.

High Speed Turning - See Precision-Machined.

Injection Molding - A method of molding plastics by first heating granular plastic to its molten state and injecting it into the mold cavity where the plastic solidifies and is then ejected from the cavity.

Insertion Force - The force required to insert a male lead into a female socket.

Knurl - A vertical serration machined around the diameter of an interconnect pin providing a retention feature for press-fitting in a PC board or insulator and also preventing rotation of the pin.

LCP (Liquid Crystal Polymer) - Classified as a thermoplastic, LCP is a hard, rigid material which exhibits outstanding strength at high temperatures and exceptional strength and toughness in its thin walls. Applications: LCP is used as an insulator material for tight grid (.050", 2mm) connectors and extremely high temperature requirements.

Mating Pin - The pin used to interconnect two electronic devices by inserting it into the contact. Critical features are diameter, length, and shape (but not limited to.)

Machined - See Precision-Machined.

Migration - For a brass part plated with tin or gold, the migration of zinc from brass to the surface of the plating. This becomes zinc oxide and renders the part unsolderable. Zinc migration is prevented by using a copper or nickel underplate as a barrier.

Nylon 46 - Classified as thermoplastics. Nylon 46 offers superior heat resistance, good electrical properties and excellent toughness in its thin walls, which are desirable characteristics for connector insulators. Its superior strength in thin walls enables the press-fitting of pins in close proximity to each other without cracking or warping the material, making it ideal for molding 2mm and .050" grid insulators. Nylon 46 is suitable for high temperature applications including vapor phase, infra-red reflow and wave soldering operations.

Passive Device or Component - An electronic connector that consumes electrical energy, but does not produce electrical energy. Passive devices are not susceptible to significant ESD damage.

PCB - Printed Circuit Board.

PCT (Polycyclohexane Terephthalate) - Thermoplastic polyester is rated for higher temperatures. PCT is a standard material on DIP and SIP insulators for higher temperature operations. All PGA and surface mount products are molded from PCT and are suitable for infra-red, vapor phase and wave soldering.

Plating - A process in which metals (e.g. gold, tin-lead, nickel, silver) are electrically deposited onto a base metal in very thin and precise thicknesses.

Plated Through-Hole - A hole in a printed circuit board which has metallic walls connected to conductors on the surface or inside the board, in which the component lead is inserted and soldered.

Precision-Machined - Manufacturing process whereby a rapidly turning solid metal rod is cut to precise tolerances.

Receptacle - Female contact consisting of an outer shell and inner spring contact (clip) designed for multiple mating/unmating cycles with a male pin or component lead.

Screw-Machined - See Precision-Machined.

Secondary Machining - A process in which holes, slots, flats, squares or other special features may be machined onto a pin or receptacle after the basic shape of the part has been turned on a high speed lathe.

Shrink DIP Package - An IC which has a pin spacing of .070" on centers.

Skiving - The removal of a thin amount of plating when pins or contacts are press fit. For example, soft platings may yield some amount of skiving upon press fitting into an insulator or board. Skiving may also appear under a contact clip pressed into a receptacle shell.

Standoff - A protrusion at the bottom of the connector used to raise it off the PC board to aid in solder fillet formation, board inspection, flux removal and cleaning.

Swage Mount - A type of mounting commonly used with solder terminals and printed circuit pins where one end of the terminal is flared out (riveted) securing it to the PCB.

Thermal Coefficient of Expansion (TCE) - Expansion of material caused by an increase in temperature.

Thermoset - Type of plastic which is heat cured into a permanent shape, and due to chemical reaction, cannot be remelted.

Thermoplastics - Type of plastic which is molded under heat and pressure and can be remelted & reused many times.

Top Plate - Final surface plating over base metal and underplating.

Underplate - Plating between the base metal and the top plating.

Withdrawal Force (or Extraction Force) - The force required to remove a lead from a contact.

Wrapost (Terminal or Receptacle) - The length of square cross section of certain pins and receptacles which is used for making electrical connections via wire wrapping.

Wire wrapping is a process in which wire is wrapped around the post to form a gas-tight connection without soldering.



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NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

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104-XX-XXX-41-780000	0478	28	173-XX-XXX-00-001000	0730-3	50
110-XX-210-10-001000	1001	63	180-XX-XXX-00-001000	8000	51
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110-XX-3XX-10-001000	1001	63	183-XX-XXX-00-001000	8301-3	51
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117-XX-XXX-41-005000	1802	57	304-XX-1XX-41-770000	0477	97
117-XX-XXX-41-105000	1802	58	304-XX-1XX-41-780000	0478	97
121-XX-XXX-41-001000	0040-1	41	310-XX-1XX-40-023000	1023	77
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123-XX-XXX-41-001000	0088-3	41	310-XX-1XX-41-107000	1005	78
123-XX-XXX-41-801000	0088-3	30	311-XX-1XX-41-001000	0134	89
124-XX-XXX-41-002000	0086-4	41	315-XX-1XX-41-001000	0501	89
126-XX-XXX-41-001000	2601	42	315-XX-1XX-41-003000	1534	89
126-XX-XXX-41-002000	2602	42	316-XX-1XX-41-001000	0153-5	91
126-XX-XXX-41-003000	2603	42	316-XX-1XX-41-003000	0153-2	91
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134-XX-XXX-00-050000	3405	54	319-XX-1XX-00-001000	1942	13
134-XX-XXX-00-100000	3410	54	319-XX-1XX-00-002000	1940	13
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151-XX-XXX-00-011000	5511	53	330-XX-1XX-00-240000	3024	13
153-XX-XXX-00-001000	5301	48	334-XX-1XX-00-000000	3400	105
160-XX-XXX-00-001000	0282	49	334-XX-1XX-00-010000	3401	105
162-XX-XXX-00-001000	1106-2	49	334-XX-1XX-00-020000	3402	105
162-XX-XXX-00-180000	6218	59	334-XX-1XX-00-050000	3405	105
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NUMERICAL LISTING AND LOCATION OF MILL-MAX SOCKET ASSEMBLY NUMBERS WITH REFERENCE TO MILL-MAX PINS

MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #	MILL-MAX SOCKET ASSEMBLY NUMBER	MILL-MAX PIN # REF.	PAGE #
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346-XX-1XX-41-012000	4612	97	442-XX-2XX-00-592000	4259-2	107
346-XX-1XX-41-013000	4613	97	442-XX-2XX-00-593000	4259-3	107
350-XX-1XX-00-001000	0290	79,108	442-XX-2XX-00-594000	4259-4	107
350-XX-1XX-00-006000	3404	73	446-XX-2XX-41-012000	4612	98
350-XX-1XX-00-106000	3404	78	446-XX-2XX-41-013000	4613	98
350-XX-1XX-00-107000	3404	78	450-XX-2XX-00-001000	0290	79,109
351-XX-1XX-00-003000	5503	103	450-XX-2XX-00-006000	3404	74
351-XX-1XX-00-004000	5504	103	450-XX-2XX-00-106000	3404	78
351-XX-1XX-00-005000	5505	103	451-XX-2XX-00-003000	5503	104
351-XX-1XX-00-009000	5509	103	451-XX-2XX-00-004000	5504	104
351-XX-1XX-00-010000	5510	103	451-XX-2XX-00-005000	5505	104
351-XX-1XX-00-011000	5511	103	451-XX-2XX-00-009000	5509	104
351-XX-1XX-40-002000	5102	77	451-XX-2XX-00-010000	5510	104
353-XX-1XX-00-001000	5301	110	451-XX-2XX-00-011000	5511	104
360-XX-1XX-00-001000	0282	108	453-XX-2XX-00-001000	5301	111
362-XX-1XX-00-001000	1106-2	110	460-XX-2XX-00-001000	0282	109
363-XX-1XX-00-001000	1106-3	110	463-XX-2XX-00-001000	1106-3	111
364-XX-1XX-00-580000	6458	102	464-XX-2XX-00-580000	6458	102
370-XX-1XX-00-001000	0700	108	470-XX-2XX-00-001000	0700	109
373-XX-1XX-00-001000	0730-3	110	473-XX-2XX-00-001000	0730-3	111
380-XX-1XX-00-001000	8000	75,108	480-XX-2XX-00-001000	8000	75,109
382-XX-1XX-00-001000	8301-2	110	483-XX-2XX-00-001000	8301-3	111
383-XX-1XX-00-001000	8301-3	110	499-XX-2XX-10-003000	1103/1602	74
388-XX-102-11-740799	8874	125	499-XX-2XX-10-008000	1938/1940	14
388-XX-102-11-740800	8874	125	499-XX-2XX-10-009000	5011/5113	74
395-XX-101-03-380000	8433	124	507-10-XXX-XX-XXX437	0737	115
395-XX-101-07-350000	8994	124	510-XX-XXX-XX-XXX00X	1001	114
395-XX-101-34-340000	8993	124	511-XX-XXX-XX-XXX00X	0134	114
399-XX-1XX-10-003000	1103	73	513-XX-XXX-XX-XXX085	1385	114
399-XX-1XX-10-008000	1940	13	514-XX-XXX-XX-XXX034	1434	114
399-XX-1XX-10-009000	5011	73	515-XX-XXX-XX-XXX00X	0501	114
399-XX-0XX-21-300000	9930	69	518-XX-XXX-XX-XXX00X	180X	114
399-XX-0XX-00-310000	9931	69	522-XX-XXX-XX-XXX00X	0089-2	114
410-XX-2XX-10-001000	1001	63	523-XX-XXX-XX-XXX00X	0088-3	114
410-XX-2XX-10-002000	1001	63	540-10-XXX-XX-XXX448	4048	117
410-XX-2XX-41-001000	1001	74,90	540-10-XXX-XX-XXX454	4054	117
410-XX-2XX-41-105000	1005	78	540-10-XXX-XX-XXX498	4098	117
411-XX-2XX-41-001000	0134	90	540-44-XXX-17-40000X	N/A	120
414-XX-2XX-41-117000	1434	76	550-XX-XXX-XX-XXX012	5012	115
415-XX-2XX-41-001000	0501	90	551-XX-XXX-XX-XXX003	5503	115
415-XX-2XX-41-003000	1534	90	551-XX-XXX-XX-XXX004	5504	115
416-XX-2XX-41-001000	0153-5	92	551-XX-XXX-XX-XXX005	5505	115
416-XX-2XX-41-003000	0153-2	92	579-10-XXX-XX-XXX429	7929	117
416-XX-2XX-41-006000	0153-1	92	582-11-XXX-XX-XXX414	8214	117
416-XX-2XX-41-007000	0153-3	92	587-10-XXX-XX-XXX437	8737	117
416-XX-2XX-41-008000	0153-4	92	594-XX-020-01-007032	8857-X	62
419-XX-2XX-00-001000	1942	14	599-11-XXX-XX-XXX428	9928	117
419-XX-2XX-00-002000	1940	14	599-10-XXX-XX-XXX429	9929	117
419-XX-2XX-00-005000	1938	14	599-11-XXX-XX-XXX442	9942	117
419-XX-2XX-30-041000	1941	14	599-XX-XXX-XX-XXX476	9976	115
421-XX-2XX-41-001000	0040-1	94	605-XX-XXX-11-480000	0548	46
422-XX-2XX-41-001000	0089-2	94	605-XX-XXX-XX-XXX048	0548	116
423-XX-2XX-41-001000	0088-3	94	612-XX-XXX-41-001000	0255	44
424-XX-2XX-41-002000	0086-4	94	612-XX-XXX-41-002000	8855	44
426-XX-2XX-41-001000	2601	96	612-XX-XXX-41-003000	0135	44
426-XX-2XX-41-002000	2602	96	612-XX-XXX-41-004000	0132	44



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614-XX-XXX-31-002000	0442	47	816-22-0XX-10-00X-101	0908-X	12
614-XX-XXX-31-007000	1407	46	818-22-0XX-10-00X-101	0908-X	12
614-XX-XXX-31-012000	0552-1	47	819-22-0XX-30-001101	0913-0	7.1
614-XX-XXX-31-018000	0552-2	47	820-22-0XX-30-001101	0913-0	7.1
614-XX-XXX-41-001000	1401	45	821-22-0XX-10-00X-101	0906-X	10
614-XX-XXX-XX-XXX007	1407	116	823-22-0XX-10-00X-101	0906-X	10
614-XX-XXX-XX-XXX012	0552-1	116	825-22-0XX-10-001101	0914	11
614-XX-XXX-XX-XXX0XX	1401	116	827-22-0XX-10-001101	0914	11
712-XX-XXX-41-001000	0255	99	830-XX-0XX-10-001000	5012	70
714-XX-XXX-31-007000	1407	100	830-XX-0XX-20-001000	3790	72
714-XX-XXX-31-012000	0552-1	101	830-XX-0XX-30-001000	6218	71
714-XX-XXX-31-018000	0552-2	101	830-XX-0XX-30-002000	6218	71
714-XX-XXX-41-001000	1401	100	831-XX-0XX-10-001000	1802	70
800-XX-0XX-10-001000	7007	81	831-XX-0XX-20-001000	1805	72
800-XX-0XX-10-002000	5016	80	831-XX-0XX-30-001000	1802	71
800-XX-0XX-10-004000	3077	86	831-XX-0XX-30-002000	1802	71
800-XX-0XX-20-001000	5005	81	832-XX-XXX-10-001000	5012	70
800-XX-0XX-20-201000	5005	88	832-XX-XXX-20-001000	3790/3796	72
800-XX-0XX-30-001000	7007	85	832-XX-XXX-30-001000	6218	71
800-XX-0XX-40-002000	1502	77	833-XX-XXX-10-001000	1802	70
800-XX-0XX-61-001000	5601	83	833-XX-XXX-20-001000	1805/3805	72
800-XX-0XX-62-001000	5602	83	833-XX-XXX-30-001000	1802	71
801-XX-0XX-10-004000	1313	86	834-XX-0XX-10-001000	3435	87
801-XX-0XX-10-001000	1304	81	835-XX-0XX-10-001000	3435	87
801-XX-0XX-10-002000	1303	80	850-XX-0XX-10-001000	4006-0	66
801-XX-0XX-10-003000	1303	79	850-XX-0XX-20-001000	4006-1	67
801-XX-0XX-10-012000	1303	80	850-XX-0XX-30-001000	4006-0	68
801-XX-0XX-10-013000	1303	79	850-XX-0XX-30-002000	4006-0	68
801-XX-0XX-10-201000	1304	88	851-XX-0XX-10-001000	4890-0	66
801-XX-0XX-10-212000	1303	88	851-XX-0XX-10-002000	0467	66
801-XX-0XX-20-001000	1305	81	851-XX-0XX-10-011000	4890-1	66.1
801-XX-0XX-20-201000	1305	88	851-XX-0XX-10-021000	4890-2	66.1
801-XX-0XX-30-001000	1304	85	851-XX-0XX-20-001000	4890-1	67
801-XX-0XX-40-002000	1303	77	851-XX-0XX-30-001000	4890-0	68
801-XX-0XX-61-001000	4614	83	851-XX-0XX-30-002000	4890-0	68
801-XX-0XX-62-001000	4615	83	852-XX-XXX-10-001000	4006-0	66
802-XX-0XX-10-001000	7007	82	852-XX-XXX-20-001000	4006-1/2	67
802-XX-0XX-10-002000	5016	80	852-XX-XXX-30-001000	4006-0	68
802-XX-XXX-10-004000	3077	86	853-XX-XXX-10-001000	4890-0	66
802-XX-0XX-20-001000	5005/5107	82	853-XX-0XX-10-011000	4890-1	66.1
802-XX-0XX-30-001000	7007	85	853-XX-0XX-10-021000	4890-2	66.1
802-XX-0XX-61-001000	5601	84	853-XX-XXX-20-001000	4890-1/2	67
802-XX-0XX-62-001000	5602	84	853-XX-XXX-30-001000	4890-0	68
803-XX-XXX-10-001000	1304	82	854-22-0XX-10-001101	0950-0	12.1
803-XX-0XX-10-002000	1303	80	855-22-0XX-10-001101	0950-0	12.1
803-XX-0XX-10-003000	1303	79	854-22-0XX-30-001101	0951-0	12.2
803-XX-XXX-10-004000	1313	86	856-XX-0XX-10-051000	1933	14.1
803-XX-XXX-20-001000	1305/1306	82	856-XX-0XX-30-051000	1935	14.1
803-XX-XXX-30-001000	1304	85	857-XX-0XX-10-051000	1933	14.1
803-XX-XXX-61-001000	4614	84	857-XX-0XX-30-051000	1935	14.1
803-XX-XXX-62-001000	4615	84	862-XX-121-00-180000	6218	59
810-22-0XX-40-001101	0916-0	7.2	862-XX-121-30-180000	6218	60
811-22-0XX-30-00X-101	0900-X	06			
811-22-00X-30-00X-191	0900-X	09	896-43-004-00-000000	N/A	122
812-22-0XX-30-00X-101	0907-X	07	896-43-004-90-000000	N/A	122
812-22-0XX-30-01X-101	0907-X/0908-X	08	896-43-005-00-100001	N/A	121
812-22-00X-30-00X-191	0907-X	09	896-43-008-90-000000	N/A	122
813-22-0XX-30-00X-101	0900-X	06	897-43-004-90-000000	N/A	122
813-22-0XX-30-00X-191	0900-X	09	897-43-005-00-100001	N/A	121
814-22-0XX-30-00X-101	0907-X	07	896-43-004-00-000000	N/A	122
814-22-0XX-30-01X-101	0907-X/0908-X	08	896-43-004-90-000000	N/A	122
814-22-0XX-30-00X-191	0907-X	09	896-43-005-00-100001	N/A	121



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896-43-008-90-000000	N/A	122			
897-43-004-90-000000	N/A	122			
897-43-005-00-100001	N/A	121			
917-XX-XXX-41-001000	1701	123			
917-XX-XXX-41-005000	1705	123			
940-44-XXX-17-40000X	N/A	118			
940-44-XXX-24-000000	N/A	119			
999-11-XXX-10-000000	N/A	125			



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0039	166	0322	152	0415	146	0678	135	1045	166	1801	136
0040	166	0323	152	0433	157	0679	134	1047	167	1802	140
0066	166	0324	152	0434	157	0680	133	1052	169	1803	140
0067	166	0325	152	0435	157	0682	134	1053	169	1804	140
0068	166	0326	145	0436	157	0697	135	1064	195	1805	140
0086	166	0327	153	0442	128	0700	183	1065	134	1806	140
0088	166	0328	153	0444	167	0703	132	1066	134	1807	140
0089	166	0329	154	0445	167	0707	132	1067	178	1808	140
0132	136	0330	148	0447	137	0730	195	1068	195	1873	147
0133	136	0331	151	0461	129	0739	155	1070	195	1933	180
0134	136	0333	153	0462	131	0814	154	1071	195	1935	180
0135	136	0334	153	0463	131	0850	17.2	1072	195	1938	185
0136	137	0335	149	0464	127	0851	17.2	1083	194	1940	185
0137	137	0336	152	0466	131	0900	15	1090	194	1941	185
0138	137	0338	143	0467	129	0901	16	1092	195	1942	185
0139	137	0339	143	0468	132	0903	138	1093	195	2086	129
0141	137	0340	153	0477	133	0904	138	1094	192	2101	198
0145	137	0341	135	0478	133	0905	15	1095	193	2102	196
0146	137	0342	157	0479	165	0906	16	1096	195	2103	205
0147	136	0343	154	0489	131	0907	15	1097	193	2104	205
0148	137	0344	152	0490	161	0908	16	1103	137	2105	205
0149	133	0345	153	0491	161	0910	17	1104	139	2106	205
0152	137	0347	154	0492	158	0912	184	1105	159	2107	205
0153	138	0348	152	0493	161	0913	15	1106	195	2108	196
0156	136	0349	152	0496	159	0914	16	1109	136	2109	196
0240	139	0350	162	0498	139	0915	178	1110	192	2110	198
0252	135	0351	153	0501	133	0922	16	1122	195	2111	196
0253	135	0354	156	0504	179	0925	15	1124	192	2112	205
0255	136	0355	156	0505	179	0927	15	1130	177	2113	196
0257	178	0356	154	0508	175	0928	15	1147	130	2115	210
0259	185	0357	153	0512	132	0929	16	1179	174	2297	168
0265	183	0358	154	0520	190	0930	16	1210	192	2301	199
0270	183	0359	154	0522	178	0932	16	1212	193	2302	207
0272	183	0360	154	0529	127	0933	17.1	1213	193	2303	206
0273	146	0362	158	0542	178	0934	15	1214	193	2304	200
0275	183	0363	158	0548	128	0936	15	1215	192	2305	200
0279	148	0364	158	0550	132	0940	186	1216	193	2306	200
0280	168	0365	158	0552	129	0950	17.1	1221	192	2307	200
0281	168	0366	158	0553	128	0951	17.1	1222	192	2308	197
0282	183	0367	158	0554	128	0952	178	1261	138	2309	211
0284	146	0368	159	0555	134	0962	17.1	1267	177	2310	199
0285	146	0370	161	0556	137	0967	17	1302	193	2311	200
0286	185	0372	158	0558	134	0980	16	1303	150	2312	197
0287	146	0373	153	0560	131	0990	17	1304	148	2313	212
0290	182	0378	143	0566	128	0995	188	1305	149	2314	208
0291	146	0379	165	0569	129	0997	17	1306	149	2315	207
0292	144	0381	158	0574	132	1001	136	1313	151	2316	198
0293	146	0382	169	0577	164	1005	137	1334	142	2317	198
0294	144	0383	169	0579	130	1010	192	1385	141	2318	211
0295	144	0385	141	0600	182	1011	192	1401	141	2319	212
0297	144	0387	161	0613	130	1012	192	1407	128	2320	206
0298	145	0388	163	0616	161	1013	137	1434	133	2321	212
0300	148	0389	163	0660	134	1020	192	1502	185	2322	206
0301	148	0390	163	0664	145	1021	192	1534	132	2323	206
0303	146	0391	161	0665	134	1022	192	1602	138	2324	196
0305	148	0393	161	0666	135	1023	142	1610	138	2325	199
0306	146	0394	161	0667	134	1024	139	1701	142	2326	210
0307	139	0395	162	0668	135	1030	166,193	1702	166	2328	206
0309	148	0396	145	0669	135	1031	166,193	1703	166	2329	197
0312	153	0397	144	0670	135	1032	166,193	1705	139	2333	198
0314	153	0398	144	0671	132	1033	135	1706	139	2348	199
0315	181	0399	148	0672	139	1034	166	1707	139	2352	207
0316	153	0400	149	0673	135	1035	166	1752	180	2355	199
0317	153	0401	150	0675	134	1036	166	1753	139	2362	207
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2501	202	3077	182	3302	186	4622	140	6659	154	8857	142
2502	208	3100	155	3303	186	4689	171	6800	155	8859	179
2503	200	3101	188	3304	186	4825	171	6821	187	8862	142
2505	199	3102	188	3360	186	4890	131	6857	149	8864	145
2506	199	3103	188	3400	182	4900	160	7007	182	8866	140
2507	207	3104	188	3401	182	4964	172	7009	143	8874	130
2508	201	3105	188	3402	182	4965	172	7065	134	8876	185
2510	197	3106	188	3404	179	5005	182	7132	138	8877	142
2511	208	3110	187	3405	182	5011	181	7305	149	8885	175
2512	203	3111	187	3406	181	5012	175	7310	191	8894	132
2513	197	3112	184	3408	183	5016	182	7405	151	8898	137
2514	211	3113	186	3409	181	5035	172	7406	151	8919	182
2515	208	3114	184	3410	182	5059	154	7491	131	8940	178
2516	208	3115	184	3411	182	5062	173	7520	146	8947	127
2517	206	3116	177	3413	180	5063	172	7553	130	8952	189
2520	206	3117	184	3435	164	5102	185	7614	149	8953	189
2524	201	3118	184	3450	151	5107	182	7827	177	8954	189
2526	207	3119	184	3490	156	5113	181	8000	183	8955	189
2530	212	3120	188	3516	179	5137	171	8006	183	8963	163
2533	198	3121	175	3520	151	5155	176	8016	162	8964	142
2551	201	3122	188	3601	190	5231	191	8067	159	8969	176
2561	201	3123	188	3602	184	5240	172	8086	174	8975	128
2601	167	3124	188	3603	183	5275	192	8114	146	8979	176
2602	167	3125	188	3609	190	5280	165	8131	139	8995	180
2603	167	3126	188	3620	186	5291	165	8206	155	8996	160
2617	180	3128	175	3621	186	5295	145	8210	127	9000	178
2650	172	3129	177	3667	159	5301	194	8252	138	9016	161
2701	209	3130	186	3790	176	5342	142	8257	172	9019	144
2702	202	3131	184	3796	176	5359	164	8300	148	9022	174
2703	202	3132	187	3802	140	5364	165	8301	194	9036	176
2704	200	3133	190	3805	140	5435	177	8303	150	9039	144
2705	203	3134	186	3808	156	5503	181	8330	173	9050	171
2706	212	3135	177	3907	141	5504	181	8331	151	9051	176
2707	197	3136	187	3966	165	5505	181	8360	154	9064	160
2708	198	3137	187	4001	141	5509	181	8363	141	9075	180
2709	210	3138	190	4006	175	5510	179	8365	160	9081	175
2710	202	3139	184	4011	136	5511	179	8401	149	9083	171
2713	202	3140	188	4015	164	5522	129	8404	180	9086	173
2715	209	3141	188	4030	140	5531	130	8427	133	9092	191
2717	202	3142	189	4034	158	5552	131	8433	157	9101	147
2762	209	3144	190	4040	161	5556	176	8445	138	9113	171
2801	204	3145	189	4064	157	5557	131	8451	173	9137	171
2802	204	3146	189	4068	171	5601	187	8467	130	9159	176
2803	203	3147	177	4071	172	5602	187	8553	128	9184	156
2804	204	3148	187	4078	138	5650	147	8579	129	9185	172
2805	204	3149	188	4095	150	5660	137	8600	189	9214	161
2806	204	3150	187	4184	171	5739	132	8602	210	9218	180
2807	209	3151	186	4194	176	5834	159	8608	194	9222	156
2808	209	3152	190	4209	172	5960	141	8637	128	9225	127
2809	209	3153	188	4259	179	5970	133	8679	147	9228	173
2810	201	3154	178	4268	173	6002	143	8685	176	9234	137
2811	204	3155	176	4280	165	6021	147	8730	159	9265	174
2812	201	3156	212	4286	134	6023	129	8806	150	9280	160
2815	203	3157	178	4288	171	6092	173	8808	172	9293	145
2816	203	3158	178	4310	141	6095	173	8815	187	9324	158
2817	203	3159	189	4353	171	6142	174	8827	147	9353	151
2821	198	3185	141	4361	171	6192	130	8829	159	9354	151
2954	142	3210	177	4366	177	6214	129	8830	140	9359	154
2956	185	3221	188	4378	137	6218	175	8831	210	9363	142
3006	175	3222	188	4477	173	6252	140	8835	210	9372	159
3013	136	3223	188	4526	188	6401	150	8836	210	9393	149
3016	128	3230	189	4582	159	6458	180	8837	162	9401	159
3018	141	3231	190	4612	133	6477	173	8838	155	9407	130
3024	185	3232	189	4613	133	6547	172	8852	141	9462	130

