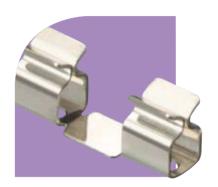


# RFI & PCB Hardware





### **CONTENTS**

RFI SHIELD CLIPS 158

RFI SHIELD FINGERS 159

SMT JUMPER LINKS 160

SMT TEST POINT 161

SMT FUSE CLIP 162 SMT CABLE CLIP 163

**HARWIN** 

# RFI Shield Clips Shield Clips for EMI/RFI Shields

- **▶** SMT devices offering a fast solution for assembling RFI shields to PCBs.
- **▶** Eliminates the need for through holes and post reflow operations.
- **▶** Saves PCB real estate.
- ▶ Mini clip uses 40% less space than Midi.
- **▶** Substantial improvement in time and simplicity of assembly tuning and re-work.



# **SPECIFICATION**

# → Materials

Material: Beryllium Copper or

Cupro-Nickel (Beryllium-free)

Finish: Tin or Tin/Lead

### Packaging

Packaging Format: Tape & Reel or Loose

Reel Quantity: Midi: 1,900 on a Ø330mm reel

Mini: 5,000 on a Ø330mm reel

# **:** Electrical

Contact Resistance: Midi: 20 mΩ max.

Mini: 40 mΩ max.

# **:** Mechanical

MIDI

Shield Thickness: Midi: 0.30mm

Mini: 0.13 - 0.23mm

Insertion force (max.): Midi: 3.0N

Mini: 5.0N (0.17mm shield)

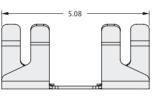
Withdrawal force (max.): Midi: 1.0N

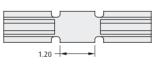
Mini: 0.35N

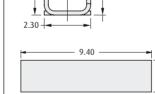
# MINI



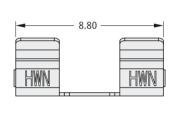
Recommended PC Board Pattern

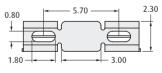




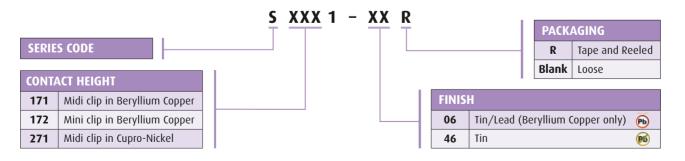


Recommended PC Board Pattern





# **HOW TO ORDER**



All dimensions in mm.

www.harwin.com













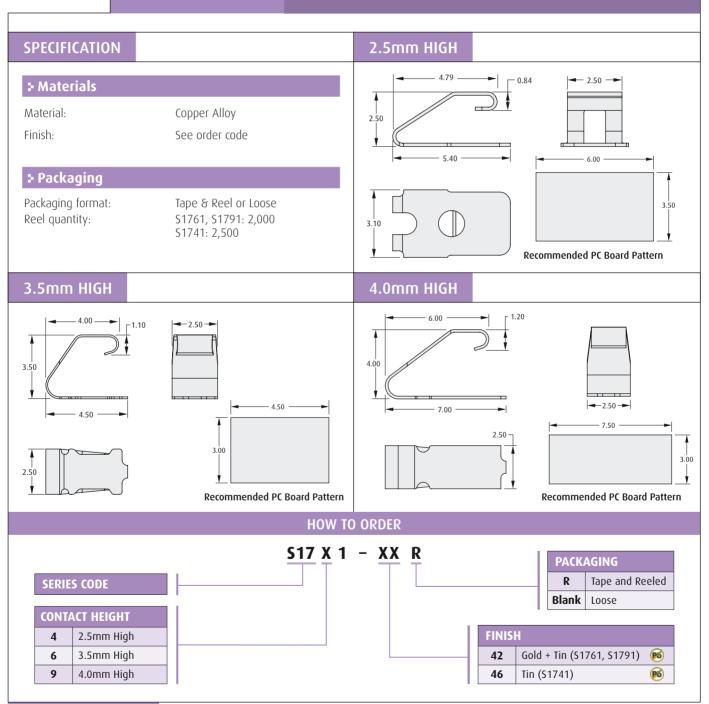






# RFI Shield Fingers Grounding Spring Contacts

- **▶** SMT devices for use in shielding and grounding applications.
- ▶ For use on surface mount PCBs, in contact with metal shields or frames.
- Suitable for both wiping and sliding actions.
- ▶ Ideal for automated requirements, using standard placement equipment.



www.harwin.com

All dimensions in mm.























# **SMT Jumper Link**

- ➤ Designed to link PCB tracks where through hole links are not possible.
- Typical applications include use on aluminium backplanes in power applications.
- ▶ High current.
- **▶** Small footprint.



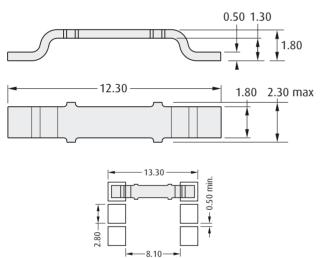
# 12.3mm LONG

# ⇒ Materials

Material: Copper Alloy
Finish: See Order Code

# **Packaging**

Format: Tape and Reel or Loose Reel quantity: 5,000 on a Ø330mm reel



**Recommended PC Board Pattern** 

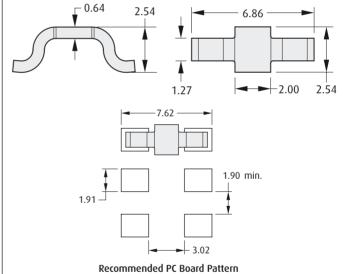
# 6.86mm LONG

# : Materials

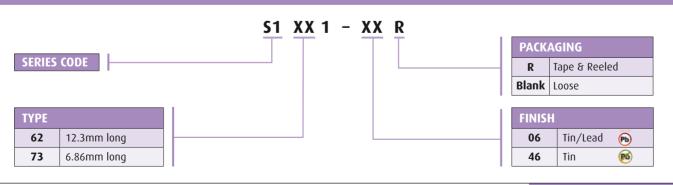
Material: Copper Finish: See Order Code

# **Packaging**

Format: Tape and Reel or Loose Reel quantity: 2,500 on a Ø330mm reel



# **HOW TO ORDER**



All dimensions in mm.

www.harwin.com





















# **SMT Test Point**

- ▶ Ideal for use with standard probes, clips and hooks.
- **▶** Can be placed using industry standard equipment.
- **▶** Suitable for automatic or manual test.
- **▶** High speed placement.
- ▶ Industry standard Tape and Reel packaging.
- **>** Strong and durable.

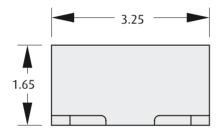
# ⇒ Materials

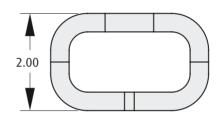
Material: Finish:

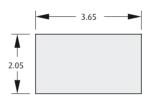
Copper Alloy See Order Code

# ₽ Packaging

Format: Reel quantity: Tape and Reel or Loose 2,500 on a Ø330mm reel

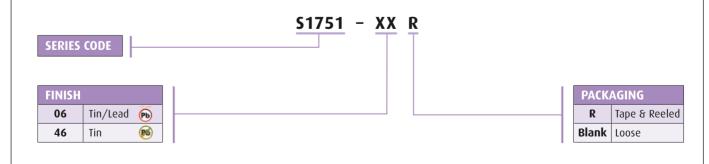






Recommended PC Board Pattern

# **HOW TO ORDER**



www.harwin.com

All dimensions in mm.























# SMT Fuse Clip for Mini Blade Fuses

- **❖** Suitable for mating with a 2.8 x 0.8mm terminal.
- ➤ Designed to accept blade fuses typically found in automotive and related applications if placed in a pair.
- **▶** Uses minimal PCB real estate with a low profile connection.
- **▶** Resists shock and vibration.
- **▶** Reduced assembly times.
- 15 Amp current rating.

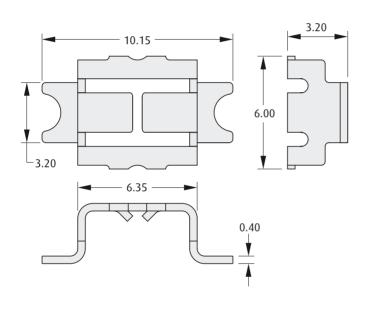


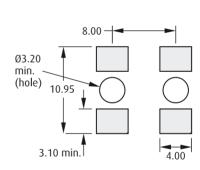
# **∴** Materials

Material: Copper Alloy Finish: See Order Code

# **→** Packaging

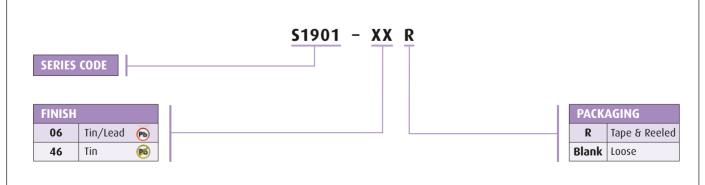
Format: Reel quantity: Tape and Reel or Loose 1,500 on a Ø330mm reel





Recommended PC Board Pattern

# **HOW TO ORDER**



All dimensions in mm.

www.harwin.com









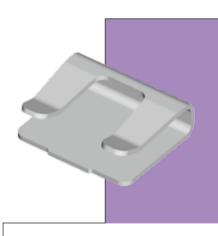












# SMT Cable Clip for Ø1.00mm cable

- **▶** Suitable for use with cable with outer diameter Ø1.00mm.
- **▶** Cable clip can be soldered at same time as rest of board, reducing additional operation time required for adhesive cable clips.
- Other size designs available, contact technical@harwin.com.

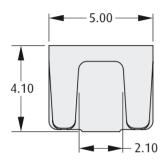
# ⇒ Materials

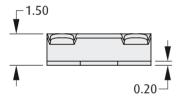
Material: Finish:

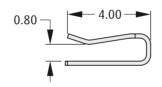
Copper Alloy See Order Code

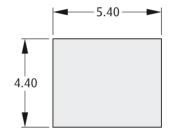
# **→** Packaging

Format: Reel quantity: Tape and Reel or Loose 3,000 on a Ø330mm reel



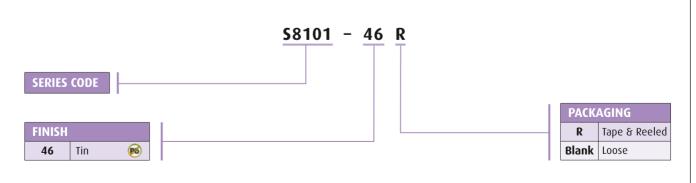






Recommended PC Board Pattern

# **HOW TO ORDER**



www.harwin.com

All dimensions in mm.

























INTERCONNECT DESIGN & MANUFACTURE

# Performance without compromise

# Datamate Mix-Tek

Datamate Mix-Tek connectors from Harwin offer a wide range of signal, power and coaxial contact combinations within one compact connector housing. The Manufacturing technology employed to produce this series is a flexible process that allows both small and large quantities to be made to order.

### **Key performance benefits:**

2mm Pitch
 3A signal contacts
 20A max current rating for power contacts
 6GHz for coax contacts
 Complete design flexibility
 COTS system







Visit **www.harwin.com/mix-tek** to order samples

# **HARWIN**

For more information see **page 44** 

