



Quam

Since

1930

Product Catalogue

MADE IN
CHICAGO





J.P. Quam



Frank Nichols

Co- Founders

The Quam-Nichols Company was established in 1930.

Living in the shadow of the Great Depression, our namesake and founders shared a sense of determination and optimism; but along with that came expertise. J. P. Quam had manufacturing experience in phonograph motors and electronic parts, while Frank Nichols had a talent for metalworking. Together, these men and their complimentary skills formed the basis of our company.

In the '30's, much of the manufacturing of "store-bought" radios was done in the Midwest. Quam-Nichols was a principal original equipment manufacturer (OEM) for the loudspeakers found in most of the brand name radios of the time. A few years later, we did the same for another new technology called television. Looking back in time and viewing the growth of the radio, television and entertainment industries, we're proud to say that Quam-Nichols played an important part.

Over the years, those industries have seen numerous changes. US-Made brands of consumer electronics are all but a memory, as most of the big brand names of that era are either gone completely, or gone offshore – along with their vendors. Not Quam-Nichols.

With a strong manufacturing base and well-trained workforce already in place, we chose to emphasize our core strengths and adapt our business plan to the changing market. We have always called Chicago our home. Our strengths are here, our resources are here- and we're successful here.

As one of the oldest loudspeaker manufacturers in continuous operation in the United States, the Quam-Nichols Company has lived through some 'interesting times,' to say the least. Our legacy of success is largely due to our adherence to these guiding principles:

LEGENDARY RELIABILITY

Once installed, a loudspeaker shouldn't need maintenance, repair or replacement. Given that mind set, the property owner and installer expect the loudspeaker installation to outlast the building. Tough standards, but we exceed expectations with 'out of the box' reliability and legendary service life. This kind of reliability and durability comes from more than eighty years of hands-on, continuous product improvement.

SUPERIOR CUSTOMER SERVICE

In business terms, when a customer contacts us, we know that they "need it now!" From order input to order completion, everyone in the organization is focused on fulfillment- on time and without fail. Over 95% of all orders are filled and shipped the same day- even Customer Specified Assemblies! These service benchmarks are the result of adhering to continuous process improvement since Day One.

OUTSTANDING VALUE

Your Quam loudspeaker was designed, manufactured, assembled and quality controlled under one roof- ours. There's no wasted motion, delays or waiting for sub-assemblies from vendors. Because we control the processes, Quam products are always competitively priced- but you're not giving up reliability, service or delivery!

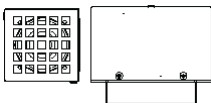
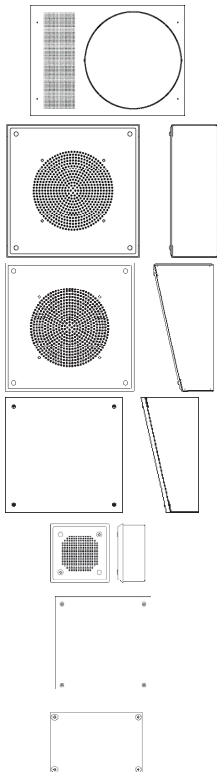
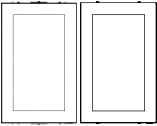
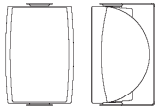
MADE IN CHICAGO- BY CHICAGOANS!

Many times, we've been asked why we don't source our products and components offshore. In truth, there are some components that are no longer made in the US. Since our inception, Quam's 'secret ingredient' has been location! A world-class city like Chicago has advantages beyond saving a few pennies. Chicago consistently provides us with an abundance of top-shelf vendors, business services, and the biggest transportation hub in the U.S. we make it here; we ship from here.



PRODUCT OVERVIEW

01 LOUDSPEAKER ASSEMBLIES



FOREGROUND SYSTEMS

FM4X1/70	4" LF, 2-way, 70V xfm and 8 Ohm, Black, mount bracket
FM4X1/70/W	4" LF, 2-way, 70V xfm and 8 Ohm, White, mount bracket
FM7X1/70/W	6.5" LF, 2-way, 70V xfm and 8 Ohm, White, mount bracket

FM7Q1/x/xx	6.5" LF, 2-way, Steel enclosure with mount bracket ^{1, 2}
FM7Q2/x/xx	6.5" LF, 2-way, Steel surface mount enclosure ^{1, 2}

1. /x : Available in 20W, 5-step rotary tap versions in 70V- /70 or 25V-/25 or 8-Ohm- /8 only

2. /xx: Available in following finishes: White /W, Black /B, Gray /G, Black enclosure and grille- Stainless Steel frame /SS and Black enclosure and grille- Aluminum treadplate frame /TP

BEAM MOUNT

BB2	Beam Mount, Speaker System, White
BB2/B	Beam Mount, Speaker System, Black
BB2/70RS	Beam Mount Speaker System, 70V Rotary tap select

SURFACE MOUNT

C5/BU/CK1/D	Clock baffle w/ speaker, 25/70V for Dukane® Analog clock mechanism
C5/BU/CK1/S	Clock baffle w/ speaker, 25/70V for Sapling® Analog clock mechanism
SYSTEM 1	Wall Mount, Square, White
SYSTEM 1VP	Wall Mount, Square, Vandal Resistant
SYSTEM 2	Wall Mount, Square, Slanted, White
SYSTEM 2VC	Wall Mount, Square, Slanted, Vandal Resistant
SYSTEM 3	Wall Mount, Square, Slanted, White
SYSTEM 3VC	Wall Mount, Square, White, with Volume Control
SYSTEM 4VC	Wall Mount, Square, Black, with gray grille and Volume Control
SYSTEM 6VP	Wall Mount, Square, Vandal Resistant, Horn (Shown in Section 6)
SYSTEM 7DT	4" Drive-Thru Menu Board Speaker, Black, 8 Ohm
SYSTEM 8/VC	8" Shallow, Square Surface Mount, Black
SYSTEM 9/VC	8" Wall or Corner Mount, Slanted, Black
SYSTEM 10/VC	4", Compact, Shallow, Square Wall Mount

SYSTEM 30	4", 5W Bi-Directional, Wall or ceiling mount
SYSTEM 31	Dual Horn, 32W Bi-Directional, as above, also beam/column
SYSTEM 32	8", 5W, Bi-Directional, Wall, ceiling, beam/column mount
SYSTEM 33	2-1/2", 5W, Bi-Directional, wall or ceiling mount



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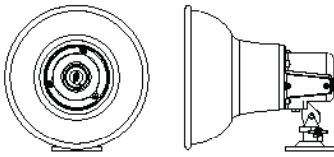
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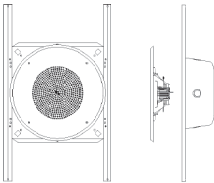
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01 LOUDSPEAKER ASSEMBLIES, Cont'd

PAGING HORN



H16/RVP	Paging Horn, 16W, 25/70V xfm, RD Baffle
H16/SVP	Paging Horn, 16W, 25/70V xfm, SQ Baffle
QH16T	Paging Horn, 16W, 25/70V xfm
QH32T	Paging Horn, 32W, 25/70V xfm

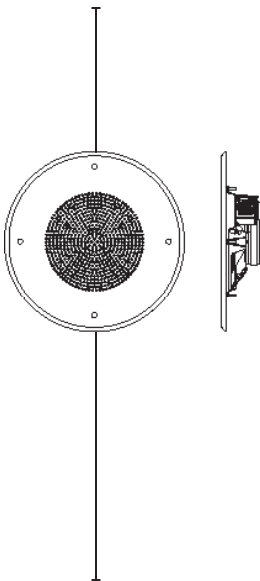


CEILING MOUNT LOUDSPEAKER ASSEMBLIES

SYSTEM 21	1ea. Blind Mount, Speaker System (Not shown)
SOLUTION 1	2ea. C10X/BU/WS, ERD8U, SSB-3, Installer Package
SOLUTION 2	2ea. Installer Package as above, with Volume Control

SPEAKER, TRANSFORMER, BAFFLE, VOLUME CONTROL

C5/BU/W/VC	Round baffle, 8", 5oz Mag, 25/70V xfm/ Volume Control
C5/B70/W/VC	Round baffle, 8", 5oz Mag, 70V xfm/ Volume Control
C10X/BU/WS/VC	Round baffle, 8", 10oz Mag, 25/70V xfm/ Volume Control
C10X/B70/WS/VC	Round baffle, 8", 10oz Mag, 70V xfm/ Volume Control

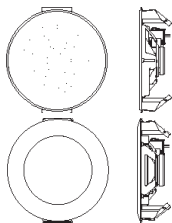


SPEAKER, TRANSFORMER, BAFFLE

C5/B25/W	Round baffle, 8", 5oz Mag, 25V xfm
C5/B70/W	Round baffle, 8", 5oz Mag, 70V xfm
C5/BU/W	Round baffle, 8", 5oz Mag, 25/70V xfm
C10X/B70/WS	Round baffle, 8", 10oz Mag, 70V xfm
C10X/BU/WS	Round STUD, 8", 10oz Mag, 25/70V xfm
8C10FECO/H70/WS	Round std. perf baffle, 8", 10oz Mag, Foam surround, Lo-loss, Extended Response 70V xfm
C10FX/H70/2WS	Round 2-Pc Designer baffle, 8", 10oz Mag, Foam surround, Lo-loss, Ext'd Response 70V xfm

SPEAKER, TRANSFORMER, QMOUNT®

C5/BU/Q1	Round Std. perf baffle, 8", 5oz Mag, 25/70V xfm
C10FX/H70/Q2	Round std. perf baffle, 8", 10oz Mag, Foam surround, Lo-loss, Extended Response 70V xfm
8C10FECO/H70/Q2	Round 2-Pc Designer baffle, 8" Co-ax, 10oz Mag, Foam surround, Extended Response 70V xfm



SPEAKER, TRANSFORMER

8C5PAX/TBL25	8", 5oz Mag, 25V xfm
8C5PAX/TBL70	8", 5oz Mag, 70V xfm
8C5PAX/TBLU	8", 5oz Mag, 25/70V xfm
8C10PAX/TBL25	8", 10oz Mag, 25V xfm
8C10PAX/TBL70	8", 10oz Mag, 70V xfm
8C10PAX/TBLU	8", 10oz Mag, 25/70V xfm

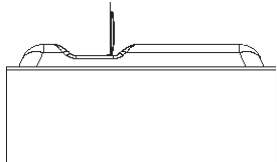
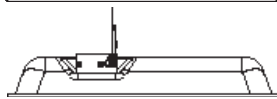
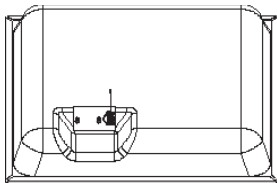
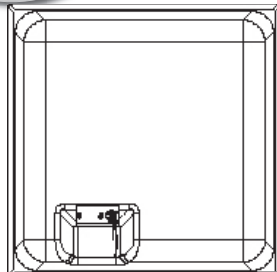


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01 LOUDSPEAKER ASSEMBLIES, Cont'd

CEILING TILE REPLACEMENT SPEAKER SYSTEMS



2'x2' shown above

All products in this section are complete loudspeaker assemblies with a high displacement composite backbox, 8" frame, 5 oz. magnet loudspeaker and standard perf grille; except as noted.

UL Listed 1480- As a General Signaling Device: Used in conjunction with a compatible listed recording and reproducing equipment; installation and application compliant with requirements of NEC and AHJ. (* All except SYSTEM 12/VC) **CITY of CHICAGO APPROVED-** Material and construction permits use where ceiling plenum is part of the air handling system.

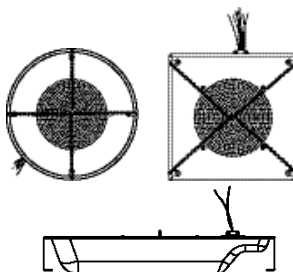
SYSTEM 5	1' x 2'- 5W-25/70V pig-tail xfm
SYSTEM 5/8	1' x 2'- 8 Ohm
SYSTEM 5/VC	1' x 2'- 4W-25/70V pig-tail xfm, Volume Control
SYSTEM 5/25RS	1' x 2'- 4W-25V rotary tap
SYSTEM 5/70RS	1' x 2'- 4W-70V rotary tap
SYSTEM 12	2' x 2'- 5W-25/70V pig-tail xfm
SYSTEM 12/8	2' x 2'- 8 Ohm*
SYSTEM 12/VC	2' x 2'- 5W-25/70V pig-tail xfm, Volume Control
SYSTEM 12/25RS	2' x 2'- 4W-25V rotary tap
SYSTEM 12/70RS	2' x 2'- 4W-70V rotary tap



SYSTEM 14	1' x 2'- CoAx, 10oz. Extd. Resp. 10W-70V pig-tail xfm
SYSTEM 15	2' x 2'- CoAx, 10oz. Extd. Resp. 10W-70V pig-tail xfm
SYSTEM 16	1' x 2'- Foam Edge Surround, 10oz. Extd. Resp. 10W-70V pig-tail xfm, integrated back box and trim rail, 'MicroPerf' grille
SYSTEM 16/8	1' x 2'- As above, 20W- 8Ω
SYSTEM 16/25RS	1' x 2'- As above, 4W-25V rotary tap
SYSTEM 19	2' x 2'- 6.5"LF/ 1" HF, Extended Resp, 10W-70V pig-tail xfm
SYSTEM 19/8	2' x 2'- 6.5"LF/ 1" HF, Extended Resp, 30W-8Ω
SYSTEM 19/25RS	2' x 2'- 6.5"LF/ 1" HF, Extended Resp, 4W-25V rotary tap
SYSTEM 20	2' x 2'- 6.5"LF/ 1" HF, Extd. Resp, Aluminum Tread Plate baffle, Finishes: Bright, White, Black, 10W-70V pig-tail xfm

CUSTOMER SPECIFIED ASSEMBLIES

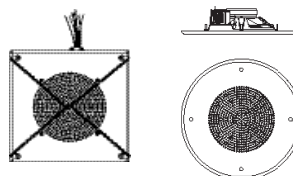
SOUND MASKING SPEAKER ASSEMBLIES



MA/E5/S7/T1/U	275 CID Economy Assembly, Pig-tail leads
MA/E6/S2/T1	690 CID "Quiet Steel" Assembly, pig-tail, CC★A
MA/E6/S2/T8	690 CID "Quiet Steel" Assy, Rotary Tap CC★A
MA/E6/S4/T8	690 CID "Quiet Steel" Assy, 8" CoAx, Rotary tap, CC★A
MA/E8/S2/T1	690 CID Standard Assy, 70V pig-tail leads CC★A
MA/E8/S2/T8	690 CID Standard Assy, 70V Rotary Tap CC★A
MA/E9/S2/T8	890 CID Grid Mount, Composite Assy, 70V Rotary Tap

CC★A City of Chicago -Approved

UL Listed SPEAKER ASSEMBLIES



UL-5	Round baffle, 8", 10oz Magnet loudspeaker, 70V xfm 4μf cap
UL-6	Round baffle, 8", 10oz Magnet loudspeaker, 70V xfm
UL-7	Round baffle, 8", 10oz Magnet loudspeaker, 25V xfm 10μf cap
UL-8	Round baffle, 8", 10oz Magnet loudspeaker, 25V xfm
UL-10	Masking Assembly, Square, 8", 10oz Mag, 70V xfm



REPLACEMENT HARDWARE KITS

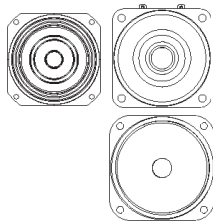
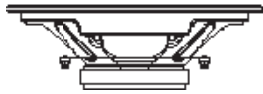
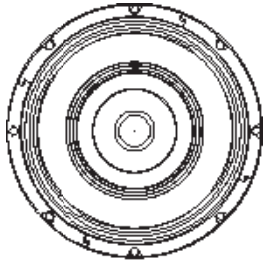


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02 LOUDSPEAKERS, INDIVIDUAL



COAXIAL

8C10CO	8", 8 Ohm, CoAx, 10oz Magnet
8C10FECO	8", 8 Ohm, CoAx, Urethane Foam Edge, 10oz Magnet

DUAL VOICE COIL

8C10DVPAX	8", 8 Ohm, 2xVC, 10oz Magnet
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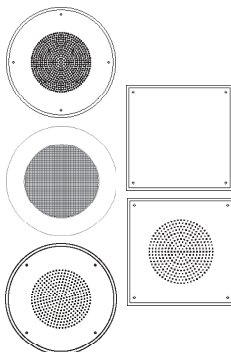
PUBLIC ADDRESS

4C3PA	4", 8 Ohm, 5oz Magnet
8C5Z45	8", 45 Ohm, 5oz Magnet
8C5PAX	8", 8 Ohm, 5oz Magnet
8C10PAX	8", 8 Ohm, 10oz Magnet
8C10FEPAX	8", 8 Ohm, Urethane Foam Edge, 10oz Magnet

MOISTURE RESISTANT

8C10PAOT	8", 8 Ohm, 10oz Magnet
25C25Z8OT	2-1/2", 8 Ohm
25C25Z45OT	2-1/2", 45 Ohm
30C25Z8OT	3", 8 Ohm
30C25Z45OT	3", 45 Ohm
4C3Z8OT	4", 8 Ohm

03 BAFFLES



BAFFLES, ROUND

BR4WS	4" Loudspeaker Grille, Round, Stud, Steel
BR8WS	8" Loudspeaker Grille, Round, Stud, Steel
BR8-2WS	8" Loudspeaker Grille, Round, Stud, 2-piece
BR8A	8" Loudspeaker Grille, Round, Screw, Brushed Aluminum
BR8W	8" Loudspeaker Grille, Round, Screw, Steel
BR8WC	8" Loudspeaker Grille, Round, Contoured, Screw, Steel

BAFFLES, SQUARE

BS8WS	8" Loudspeaker Grille, Square, Stud, Steel
BS8W	8" Loudspeaker Grille, Square, Screw, Steel

BAFFLES, VANDAL RESISTANT

BR8VP	8" Loudspeaker, Round, Steel, Vandal Resistant
BS8VP	8" Loudspeaker, Square, Steel, Vandal Resistant



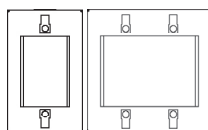
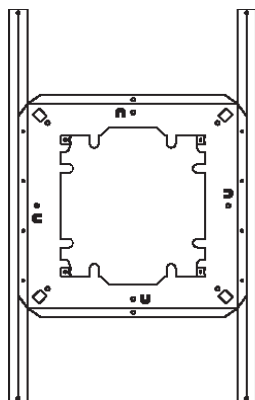
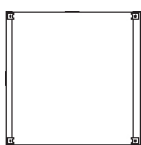
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04 BACKBOXES / MOUNTING DEVICES



BACK CANS, ENCLOSURES

- ERD-8**  Back can for 8" Loudspeaker, Round, 275 CID, with welded straps
ERD8U  Back can for 8" Loudspeaker, Round, 275 CID, snap-in straps

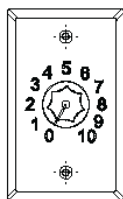
- ES-8** Utility enclosure, Square, 3.75" D
ES8-6 Utility enclosure, Square, 6.0" D
ES8-CK Flush mount box for CK1/x baffle

LOUDSPEAKER MOUNTING DEVICES

- SSB-2** 8" Loudspeaker Support Bridge
SSB-3 8" Combo torsion/ screw/ stud Support Bridge
SSB-4 4" Loudspeaker Support Bridge
SSB-6 8" 2-pc baffle BR8-2WS Support ONLY
SSB-7 Plaster ring Support
SSB-9 8" Speaker Support Bridge for QMount™ installations
SSB-1900 Drop ceiling adjustable load support with 1-1/2"D 1900 box
SSB-1900DEEP Drop ceiling adjustable load support with 2-1/8"D 1900 box
SSB-1900/NB Drop ceiling adjustable load support, without 1900 box
SSC-1 Speaker support channels
SSB-D4 Loudspeaker Support Bridge for 4" driver assembly, "Dog-Leg" mount
SSB-D6 Loudspeaker Support Bridge for 6" driver assembly, "Dog-Leg" mount
SSB-D8 Loudspeaker Support Bridge for 8" driver assembly, "Dog-Leg" mount

- SE4W** Single gang electrical surface mount box
SE4W/2 Double gang electrical surface mount box
SE9W Surface mount box for CK1/x baffle

05 ATTENUATORS / TRANSFORMERS



- QC4-50** 4W, 50 Ohm
QC4-5000 4W, 5000 Ohm
QC10 20W, Embossed positions, pig-tail lead
QC20 20W, Embossed positions, 4-pin Terminal Block connector
QC10 Classic 20W, Debossed, filled positions
QC10P 20W, Priority 24VDC by-pass relay
QC10RM 20W, Rack Mount with Dial Scale
QC10W 20W, WHITE finish and WHITE knob
QC100 100W, 2-gang plate, Embossed positions
QC100P 100W, 2-gang plate, Priority 24VDC by-pass relay
QC100RM 100W, Rack Mount with Dial Scale
QC100W 100W, 2-gang plate, WHITE finish and WHITE knob
QC101 100W, 1-gang plate, Embossed positions
QC101M 100W, 1-gang plate, Embossed positions, Masking, -1.5 dB steps, 4-pin terminal Block connector
QC101M/RM As above, rack mount with dial scale



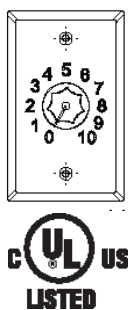
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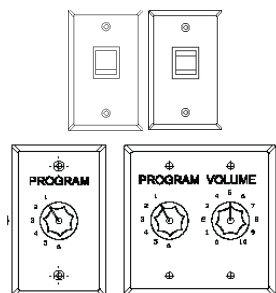
UL Listed VOLUME CONTROLS

QC10	20W, Embossed positions, pig-tail lead
QC10 Classic	20W, Debossed, filled positions
QC10RM	20W, Rack Mount with Dial Scale
QC10W	20W, WHITE finish
QC100	100W, 2-gang plate, Embossed positions
QC100RM	100W, Rack Mount with Dial Scale
QC100W	100W, 2-gang plate, WHITE finish and WHITE knob
QC101	100W, 1-gang plate, Embossed positions

TRANSFORMERS

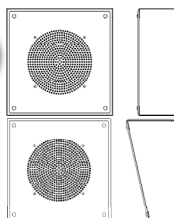
TBLU	5W- 25 and 70V, 5 taps at -3dB levels
TBL25	4W- 25V, 5 taps at -3dB levels
TBL70	4W- 70V, 5 taps at -3dB levels
TCH70	10W- 70V, 5 taps at -3dB levels, Lo-Loss, Extd. LF

SWITCHES, SELECTORS



CIB3	Switch, Call-In, mounted on 1-gang plate
CIB3/ QC10	Switch, Call-In and QC10 20W attenuator, 2-gang plate
CIB3/ QC10P	Switch, Call-In and QC10P 20W attenuator with Priority relay, 2-gang plate
CIB4	Switch, Call-In, with privacy position mounted on 1-gang plate
CIS10	Rocker Switch, Call-In, 2-gang, 16 guage, White finish
PS6L	Selector, rotary, stops at Positions 1 and 6
PS6L/ QC10	Selector, 2-gang with attenuator

06 CORRECTIONS / DETENTION

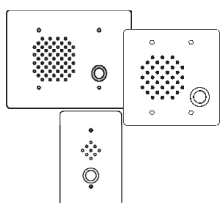


VANDAL RESISTANT LOUDSPEAKER ASSEMBLIES

SYSTEM 1VP	Cone Loudspeaker System, Square, Vandal Resistant
SYSTEM 2VP	Wall Mount Cone Loudspeaker System, Slanted, Vandal Resistant
SYSTEM 6VP	Horn Loudspeaker System, Square, Vandal Resistant

VANDAL RESISTANT INTERCOM ASSEMBLIES

CIS2/8	3-Gang Call-In Station, 12 ga. Stainless faceplate, 8 Ohm
CIS2/25	3-Gang Call-In Station, 12 ga. Stainless faceplate, 25V
CIS2/45	3-Gang Call-In Station, 12 ga. Stainless faceplate, 45 Ohm
CIS2/70	3-Gang Call-In Station, 12 ga. Stainless faceplate, 70V
CIS4/8	2-Gang Call-In Station, 12 ga. Stainless faceplate, 8 Ohm
CIS4/25	2-Gang Call-In Station, 12 ga. Stainless faceplate, 25V
CIS4/45	2-Gang Call-In Station, 12 ga. Stainless faceplate, 45 Ohm
CIS4/70	2-Gang Call-In Station, 12 ga. Stainless faceplate, 70V
CIS12/25	1-Gang Call-In Station, 12 ga. Stainless faceplate, 25V

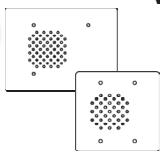


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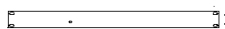
06 CORRECTIONS / DETENTION, (Continued)



VANDAL RESISTANT INTERCOM ASSEMBLIES

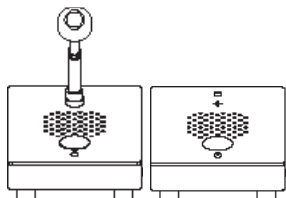
CIS6/8	3-gang Listen-only station, 12 ga. Stainless faceplate, No Button, 8 Ohm
CIS6/25	3-gang Listen-only station, 12 ga. Stainless faceplate, No Button, 25V
CIS8/8	2-gang Listen-only station, 12 ga. Stainless faceplate, No Button, 8 Ohm
CIS8/25	2-gang Listen-only station, 12 ga. Stainless faceplate, No Button, 25V

RELAY PANEL, 32 CIRCUITS

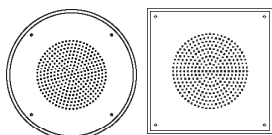


RSP1	Relay Operated Selection Panel, 1RU, 32- circuits
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DESKTOP INTERCOM STATION

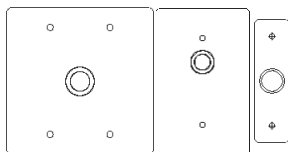


DTS1	Desktop Intercom Station with replaceable gooseneck mic
DTS2	Desktop Intercom Station with flush condenser mic
DTS3	DTS1 Desktop Intercom Station less mic



VANDAL RESISTANT COMPONENTS, BAFFLES

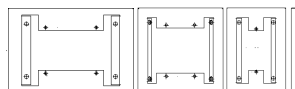
BR8VP	Vandal Resistant baffle for 8" Loudspeaker, Round
BS8VP	Vandal Resistant baffle for 8" Loudspeaker, Square



VANDAL RESISTANT CALL-IN SWITCH

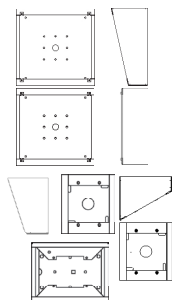
CIB2	Switch, Call-In, 1-gang, 12 ga. Stainless faceplate, Vandal Resistant
CIB6	Switch, Call-In, 2-gang, 12 ga. Stainless plate, Vandal Resistant
CIB8	Switch, Call-In, Door Mullion 12 ga. Stainless plate, Vandal Resistant

VANDAL RESISTANT OVERSIZED ESCUTCHEON PLATE



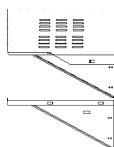
MP 1	1-gang, oversized escutcheon plate, Vandal Resistant
MP 2	2-gang, oversized escutcheon plate, Vandal Resistant
MP 3	3-gang, oversized escutcheon plate, Vandal Resistant

VANDAL RESISTANT COMPONENTS, CALL-IN ENCLOSURES



SE1WVP	Wall Mount Loudspeaker Enclosure, Square, 4"D, Vandal Resistant
SE2WVP	Wall Mount Loudspeaker Enclosure, Slanted, 4"D, Vandal Resistant
SE3GVP	Mount Box for 3-gang Call-In Station
SE5GWP	Wall Mount Enclosure, Square, 6"D, Vandal Resistant, Loudspeaker
SE6GVP	Surface Mount Enclosure for CIS4/xx (2-gang)
SE7GVP	Hooded Enclosure for CIS4/xx (2-gang)
SE8GVP	Angled Enclosure for CIS4/xx (2-gang)
SE10GVP	Hooded Enclosure for CIS2/xx and CIS6 (3-gang)

07 SHELVES



WALL MOUNT EQUIPMENT SHELVES

AS11X12	Amp Shelf, steel, 11"W x 12.9"D, Black finish
AS11X12/COVER	Amp Shelf, Cover, lock and 2 keys, 11"W x 12.9"D, Black finish
AS18x16	Amp Shelf, steel, 18"W x 16"D, Black finish
AS19x16/COVER	Amp Shelf, Cover, lock and 2 keys, steel, 19"W x 16"D, Black finish



Quam

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QUAM INFO 24x7 on the web: www.QuamSpeakers.com

Product photos, Spec sheets, Wiring diagrams, Editable guide specs, .DWG, .GLL, .CFL files-
Absolutely up-to-the-minute product information!



Quam

Since 1930

Catalog INDEX PAGE as of 11 April, 2011

00 GENERAL INFORMATION

Price List Effective 01 October 2010, Rev.02

01 LOUDSPEAKER ASSEMBLIES

0101 FOREGROUND MUSIC SPEAKER SYSTEMS

- 0101 FM4X170/x with 4" LF, 2-way enclosure w/ transformer and mount bracket, black or white (W), 20W, 70V, 5-tap -or- 8Ω
- 0101 FM7X170/W with 6.5" LF, 2-way enclosure w/ transformer and mount bracket, White only, 20W, 70V, 5-tap -or- 8Ω
- 0101 FM7Q1/8/x with 6.5" LF, 2-way enclosure w/ 3-position mount bracket, 30W- 8Ω, available in WHITE as /W, BLACK as /B, Black back with ASA 61 GRAY as /G, Black back/ grill and STAINLESS STEEL frame as /SS and Black back/grill with ALUMINUM TREADPLATE frame as
- 0101 FM7Q1/25/x All finish options as above with 25V-20W, 5-position transformer and 8Ω operation
- 0101 FM7Q1/70/x All finish options as above with 70.7V-20W, 5-position transformer and 8Ω operation
- 0101 FM7Q2/8/x with 6.5" LF, 2-way Surface Mount enclosure; 30W- 8Ω, available in WHITE as /W, BLACK as /B, Black back with ASA 61 GRAY as /G, Black back/ grill and STAINLESS STEEL frame as /SS and Black back/grill with ALUMINUM TREADPLATE frame as
- 0101 FM7Q2/25/x All finish options as above with 25V-20W, 5-position transformer and 8Ω operation
- 0101 FM7Q2/70/x All finish options as above with 70.7V-20W, 5-position transformer and 8Ω operation



0102 SURFACE MOUNTED SPEAKER SYSTEMS

All devices in Section 0102 include TBLU transformer- 5W, 25/70V, 5-taps at -3dB levels, except BB2/70RS, SYSTEM 6VP and SYSTEM 7DT.
All loudspeakers are industry 8" frame size, 12W except SYSTEM 6VP, SYSTEM 7DT, SYSTEM 10VC and SYSTEM 30

- 0102 BB2, BB2/70RS Beam Mounted Assembly, white or black
- 0102 C5/BUICK1/D-S, Clock baffle with speaker and transformer for DuKane or Sapling analog, clock mechanism not supplied
- 0102 SYSTEM 1/ SYSTEM 2- 1. Square surface mount, 2. Slanted surface mount, white finish
- 0102 SYSTEM 1VP / SYSTEM 2VP Vandal-Resistant, 1. Square surface mount, 2. Slanted surface mount, white
- 0102 SYSTEM 3VC / SYSTEM 4VC, 3. White steel enclosure 4. Black w/ wood baffle, charcoal cloth wrap, volume control
- 0102 SYSTEM 6VP Square surface mount, re-entrant horn, white, 16W, 25/70V, 5-tap
- 0102 SYSTEM 7DT Compact drive-thru, black, 4" spkr, 10W, 8Ω
- 0102 SYSTEM 8VC Shallow surface mount, black with cloth grill, black
- 0102 SYSTEM 9VC Wall or corner mount, black with cloth grille, black
- 0102 SYSTEM 10VC Ultra-compact shallow, wall mount, black, 4" frame loudspeaker
- 0102 SYSTEM 30 Bi-directional Mass Notification, 4" frame loudspeaker, 5W, 25/70V, 5-tap
- 0102 SYSTEM 31 Bi-directional Mass Notification, Dual compression horn, 2x16W, 25/70V 5-tap
- 0102 SYSTEM 32 Bi-directional Mass Notification, 8" frame loudspeaker, 5W, 25/70V, 5-tap
- 0102 SYSTEM 33 Bi-directional Mass Notification, 2-1/2" frame loudspeaker, 5W, 25/70V, 5-tap



0103 PAGING HORN

- 0103 H16 / SVP RVP Paging Horn, Round Baffle, Square Baffle, 16W, 25/70V, 5-tap
- 0103 QH16T Paging Horn with transformer, 16W, 25/70V, 5-tap
- 0103 QH32T Paging Horn with transformer, 32W, 25/70V, 5-tap

0104 CEILING MOUNTED SPEAKER ASSEMBLIES

0104.1 Installer Package

All devices in Section 0104.1 include TBLU transformer- 5W, 25/70V, 5-taps at -3dB levels and industry 8" frame loudspeaker

- 0104.1 SOLUTION 1 2-ea. Speaker, Baffle, Back Can, Universal Xfm, Tile Bridge for Lay-In Ceilings
- 0104.1 SOLUTION 2 2-ea. As above with Knob/ Screwdriver adjust Volume Control, for Lay-In Ceilings
- 0104.1 SYSTEM 21 1-ea. Speaker, Baffle, Back Can, Universal Xfm, Mount Rails for Blind-Mount Hard Ceilings

0104.2 Speaker, Transformer, Baffle and Universal Volume Control

- 0104.2 C5 SERIES / Variants
- 0104.2 C10X SERIES / Variants
- 0104.3 Speaker, Transformer, Baffle
- 0104.3 See C5 SERIES / VARIANTS with White Steel Perf Baffle
- 0104.3 See C10X SERIES / VARIANTS with White Steel Perf Baffle
- 0104.3 C10FX/H70/2WS- 2-Piece Designer baffle, Foam edge surround, extended frequency response Xfm



0104.3.1 Speaker, Transformer, Baffle, QMount™

- 0104.3.1 C5/BUICK1 Standard Baffle
- 0104.3.1 C10FX/H70/Q2 2-Piece Designer baffle, Foam edge surround extended frequency response Xfm

0104.5 Lay-In Ceiling Mount



All SYSTEM 5 and SYSTEM 12 variants UL LISTED 1480, CITY OF CHICAGO ★APPROVED




All devices in this section include industry 8" frame loudspeaker and TBLU transformer- 5W, 25/70V, 5-taps at -3dB levels except rotary tap and 8Ω as noted.










- SYSTEM 5/8 12" x 24", 12W, 8Ω, pig-tail, White/ black
- SYSTEM 12/8 24" x 24", 12W, 8Ω, pig-tail, White/ black
- SYSTEM 5, Variants include: , SYSTEM5/VC (Volume Control), 4W Max. SYSTEM5/25RS (25V, Rotary Tap), SYSTEM5/70RS (70V, Rotary Tap) 12" x 24", White/ black
- SYSTEM 12, Variants include: SYSTEM12/ VC (Volume Control), 4W Max. SYSTEM 12/25RS (25V Rotary Tap), SYSTEM 12/70RS (70V Rotary Tap) 24" x 24", White/ black
- 0104.5 SYSTEM 14 Extended frequency response 12" x 24", 10W-70V, 5-tap, pig-tail, White/ black
- 0104.5 SYSTEM 15 Extended frequency response 24" x 24", 10W-70V, 5-tap pig-tail, White/ black
- 0104.5 SYSTEM 15 Extended frequency response 24" x 24", 10W-70V, 5-tap pig-tail, White/ black
- 0104.5 SYSTEM 16 Ext. Freq. Resp. 12" x 24", 10W-70V, 5-tap pig-tail, Integrated B/B and trim rail, 'MicroPerf' grille White/ black
- 0104.5 SYSTEM 16/8 Ext. Freq. Resp. 12" x 24", 20W-8Ω, pig-tail, Integrated B/B and trim rail, 'MicroPerf' grille White/ black
- 0104.5 SYSTEM 19 Ext. Freq. Resp. 24" x 24", 20W-70V, 5-tap pig-tail, 6.5"LF, 1"HF Std. Perf grille White/ black
- 0104.5 SYSTEM 19/8 Ext. Freq. Resp. 24" x 24", 30W, 6.5"LF, 1"HF Std. Perf grille White/ black
- 0104.5 SYSTEM 20 Ultra-wide frequency response, 24" x 24" 20W-70V, 5-rotary tap, Bright finish aluminum treadplate pattern baffle, also available in black or white over treadplate pattern
- 0104.6 CUSTOMER SPECIFIED ASSEMBLIES



0105 SOUND MASKING SPEAKER ASSEMBLIES		
All devices in Section 0105 include TBL70 transformer- 4W, 70V, 5-taps at -3dB levels and 8" frame loudspeaker		
0105	MA/E/S7/T1- T8, 275 CID Economy	
0105	MA/E6/S2/T1- T8, 690 CID 'Quiet Steel' Ass'y, City of Chicago★ Approved	
0105	MA/E6/S4/T1- T8, 690 CID 'Quiet Steel' Ass'y, CoAxial spkr, Extended HF, City of Chicago★ Approved	
0105	MA/E8/S2/T1- T8, 690 CID, Std. Assembly, City of Chicago★ Approved	
0105	MA/E9/S2/T8, 890 CID, Grid Mount Assembly, City of Chicago★ Approved	
0106 UL LISTED SPEAKER ASSEMBLIES		
	UL-5, UL-6, UL-7, UL-8, UL LISTED 1480, Fire resistant 8" spkr, 5W, 5-tap push-on tap select	
	UL-10 Square Masking Assembly, UL LISTED 1480, UL-UAey, UL-UUMW, City of Chicago★ Approved, Fire resistant 8" spkr, 5W, 5-tap push-on tap select	
0180 WIRING DIAGRAM- LOUDSPEAKER ASSEMBLY, PAGING HORN		
0180	Wiring Diagram- H16/ SVP- RVP, QH16T, SYSTEM 6VP	
0180	Wiring Diagram- QH32T	
0190 REPLACEMENT HARDWARE KITS		
0190	Replacement Hardware Kits	

02 LOUDSPEAKERS, INDIVIDUAL		
0201 COAXIAL		
0201	8C10CO 8Ω, CoAx, 10oz magnet	
0201	8C10FECO 8Ω, CoAx, Foam Edge, 10oz Magnet	
0202 DUAL VOICE COIL		
0202	8C10DVPAX 8Ω, dual voice coil, 10oz Magnet	
0203 PUBLIC ADDRESS LOUDSPEAKERS, INDIVIDUAL		
0203	4C3PA 4", 8Ω, 5oz Magnet,	
0203	8C5PAX 8", 8Ω, 5oz Magnet	
0203	8C5Z45 8", 45Ω, 5oz Magnet	
0203	8C10PAX 8", 8Ω, 10oz Magnet	
0203	8C10FEPAX 8", 8Ω, Foam Edge, 10oz Magnet	
0204 MOISTURE RESISTANT LOUDSPEAKERS, INDIVIDUAL		
0204	8C10PAOT 8", 8Ω, 10oz Magnet, Moisture Resistant	
0204	GENERAL PURPOSE REPLACEMENT Loudspeakers	

03 BAFFLES		
0301 ROUND		
0301.1 Stud mount		
0301.1	BR4WS 4" Speaker, round, stud-mount, steel	
0301.1	BR8-2WS 8" Speaker, round, stud-mount, steel, two-piece	
0301.1	BR8WS 8" Speaker, round, stud mount, steel	
0301.2 Screw Mount		
0301.2	BR8A 8" Speaker, round, screw mount, Brushed aluminum	
0301.2	BR8W 8" Speaker, round, screw mount, steel. Details on BR8WS-above	
0302 SQUARE		
0302.1 Stud mount		
0302.1	BS8WS 8" Speaker, Square, stud mount, steel	
0302.2 Screw mount		
0302.2	BS8W 8" Speaker, Square, screw mount, steel, See BS8WS-above	
0304 VANDAL RESISTANT		
0304	BR8VP- BR8VP, Square and round, Vandal-resistant steel (Also found in 0603)	

04 BACK BOXES / MOUNTING DEVICES		
0401 FLUSH MOUNTED		
0401.1  Round		
0401.1	ERD-8, ERD8U Round steel, 275 CID , with hangar straps	
0401.2 Square, Flush Mounted Back Boxes		
0401.2	ES8, ES8-6 Square steel, 3.75" depth- 6.0" depth	
0401.2	ES8-CK, Flush mount enclosure for for C5/BU/CK1/x Clock Baffle Loudspeaker System	
0402	SSB-2, SSB-3, SSB-4, SSB-6, SSB-7, SSB-9, SSC-1 Loudspeaker Mounting Devices	
	- Product compatibility chart and dimensional data for above items -	
0402	SSB-1900 Drop ceiling adjustable load support with 18.0 CID 1900 series enclosure	
0402	SSB-1900DEEP Drop ceiling adjustable load support with 30.3 CID 1900 series enclosure	
0402	SSB-1900/NB Drop ceiling adjustable load support, without 1900 box	
0402	SSB-D4, SSB-D6, SSB-D8 Loudspeaker Mounting Devices for "Dog-Leg" mount assemblies	
0403 SURFACE MOUNTING DEVICES		
0403	SE4W, SE4W/2 Single gang, double gang enclosures	
0403	SE9W, Surface mount enclosure for C5/BU/CK1/x Clock Baffle Loudspeaker System	

05 ATTENUATORS / TRANSFORMERS

0501 ATTENUATORS

- 0501 QC4-50-50Ω, QC4-5000-5KΩ Wirewound, stepless Single-gang 4W
0501 QC10, QC10 Classic, QC10P Priority, QC10RM-Rack Mount, QC10W- White, Single-gang 20W
0501 QC20, 4-pin Terminal Block Connector, Single-gang 20W
0501 QC100, QC100 Classic, QC100P-Priority, QC100RM-Rack Mount, QC100W-White, Single-gang 100W
0501 QC101, QC101P- Priority, QC101RM -Rack Mount, QC101W- White, Dual-gang 100W
0501 QC101M (Masking) -1.5 dB steps, 4-pin Terminal block Connector Single-gang 100W

0501.1 Attenuators UL LISTED

- QC10, QC10 Classic, QC10RM- Rack Mount, QC10W- White, Single-gang 20W
QC100, QC100 Classic, QC100RM- Rack Mount, QC100W- White, Single-gang 100W
QC101, QC101 Classic, QC101RM- Rack Mount, QC101W- White, Dual-gang 100W



0502 TRANSFORMERS

- 0502 TBLU, TBL25, TBL70, TCH70

0503 SELECTORS, SWITCHES, VOLUME CONTROL

- 0503 CIB3, Call-In Switch, Single-gang, Normally open momentary push-button rocker
0503 CIB4, Call-In Switch with Privacy position, Single-gang, Normally open push-button rocker,
0503 PS6L, 6-step rotary program selector, PS6L/QC10 Program selector and attenuator assembly

0580 WIRING DIAGRAMS- ATTENUATOR / TRANSFORMER

- 0580 / VC Option Attenuator Wiring Diagram
0580 CIB4, Call-In Switch Wiring Diagram
0580 QC10P Attenuator w/ Priority Relay Wiring Diagram
0580 QC100P Attenuator w/ Priority Relay Wiring Diagram
0580 QC4-50 Stepless Attenuator Wiring Diagram
0580 QC4-5000 Stepless Attenuator Wiring Diagram
0580 TBL25 (25V) -TBL70 (70.7V) Single Voltage Transformer Wiring Diagram
0580 TBLU- Dual Voltage, Multi-tap Transformer Wiring Diagram
0580 TCH70 (70.7) Low-loss, Extended LF Transformer Wiring Diagram
0580 QC10 and QC100 Attenuator Wiring Diagram



06 CORRECTION / DETENTION

0601 VANDAL RESISTANT SPEAKER ASSEMBLIES

- 0601 SYSTEM 1VP / SYSTEM 2VP Vandal-Resistant Square, Slanted surface mount
0601 SYSTEM 6VP Square, surface mount, re-entrant horn



0602 VANDAL RESISTANT INTERCOM ASSEMBLIES

- 0602 CIS12/25, 1- gang, Call-in station, Stainless steel, 25V,
0602 CIS2, CIS4 2- gang, 3-gang Call-in stations, Stainless steel, 8 Ohm, 45 Ohm, 25V, 70V
0602 CIS6, CIS8 2- gang, 3-gang 'Listen-only' stations, Stainless steel, 8 Ohm, 45 Ohm, 25V, 70V
0602 DTS1, DTS3 Desktop Communications Console, (-1)Replaceable Gooseneck mic (-3) without mic
0602 DTS2 Desktop Communications Console, Flush Omni Electret Mic



0603 VANDAL RESISTANT COMPONENTS

- 0603 BR8VP, BS8VP Round, Square Vandal-Resistant Steel Baffle
0603 CIB2, 1- Gang Call-In Switch, Stainless Steel, Vandal Resistant
CIB6, 2- Gang Call-In Switch, Stainless Steel, Vandal Resistant
CIB8, Door Mullion Call-In Switch, Stainless Steel, Vandal Resistant
0603 MP 1, MP 2, MP 3- Vandal-Resistant, Oversized Mounting Platform, 1-gang, 2-gang, 3-gang
0603 SE3GVP, SE10GVP 3-Gang, Vandal-Resistant Enclosure, Surface Mount and Hooded
0603 SE5WVP, Square, 6" Deep Vandal-Resistant Surface Mount Enclosure
0603 SE6GVP, SE7GVP, SE8GVP 2-Gang, Surface Mount, Hooded, Angled Enclosures
0603 SE1WVP, SE2WVP, Vandal Resistant Loudspeaker Enclosures, Square or Slanted, White



0680 WIRING DIAGRAMS- VANDAL RESISTANT SPEAKER ASSEMBLIES

- 0680 SYSTEM 6VP Wiring Diagram

07 SHELVES

0701 WALL MOUNT EQUIPMENT SHELVES

- 0701 AS11X12, Equipment Shelf, Steel 11"W x 12.9" D, black- Available in white add /W
0701 AS11X12 / COVER, Equipment Shelf, Steel 11"W x 12.9" D, lockable cover, black-
Available in white add /W
0701 AS18X16, Equipment Shelf, Steel 18-1/8"W x 16-3/16" D, black- Available in white add /W
0701 AS19x16 / COVER, Equipment Shelf, Steel 19"W x 16" D, lockable cover, black- Available in white add /W



All product groups with the 'Made in Chicago' logo are RoHS Compliant



-End-



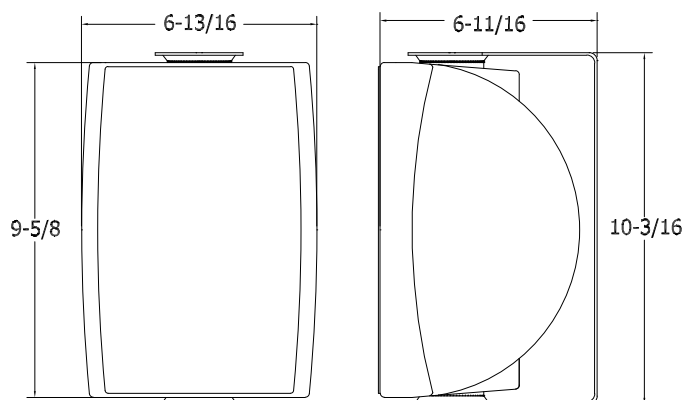
FM4XI/70

Foreground Music Speaker, Black

FM4XI/70/W

Foreground Music Speaker, White

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM4XI/70 is a complete, 2-way weather-resistant loudspeaker assembly; color-match aluminum grille and integral "U" mounting bracket. Internally mounted transformer with externally switched 70.7V or 8 Ohm operation.
Finish color: Black or white

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	100mm diameter frame
HF Speaker Size	20mm diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch
Finish options, White only	Order as FM4XI/70/W

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	89 dB SPL, 1W/ 1M
Power Rating	20W RMS, EIA 426A Standard
8 Ohm Tap Output	89 dB-SPL 1W/ 1M
Calculated Maximum System Output	101 dB SPL, 20W/ 1M, 70.7V mode
Frequency Response	80 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

- None required-

Quam-Nichols Company

234 East Marquette Road, Chicago, IL 60637
Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
E-Mail: neednow@qnc.com www.quamspeakers.com

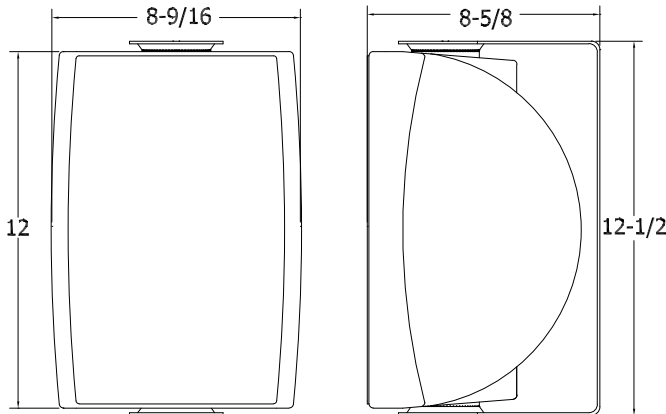


Quam

FM7X1/70/W

Foreground Music Speaker, White

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7X1/70/W is a complete, 2-way weather-resistant loudspeaker assembly; color-match aluminum grille and integral "U" mounting bracket. Internally mounted transformer with externally switched 70.7V or 8 Ohm operation. Finish color: White

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	150mm diameter frame
HF Speaker Size	25.4mm diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
8 Ohm Tap Output	91 dB-SPL 1W/ 1M
Calculated Maximum System Output	103 dB SPL, 20W/ 1M, 70.7V mode
Frequency Response	60 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

- Kit #106 - Adjustable 'Knuckle-Mount', sold in pairs

Quam-Nichols Company

234 East Marquette Road, Chicago, IL 60637
Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
E-Mail: neednow@qnc.com www.quamspeakers.com



Quam

FM7Q1/8/x

Foreground Music Loudspeaker Assembly

All White /W

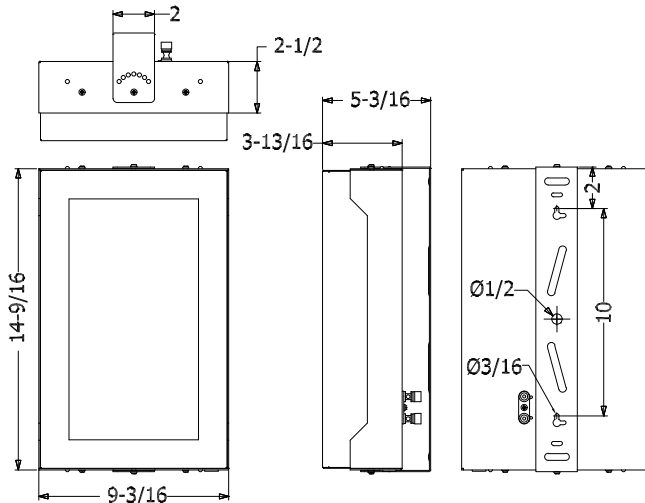
All Black /B

Black with Gray frame and Grill /G

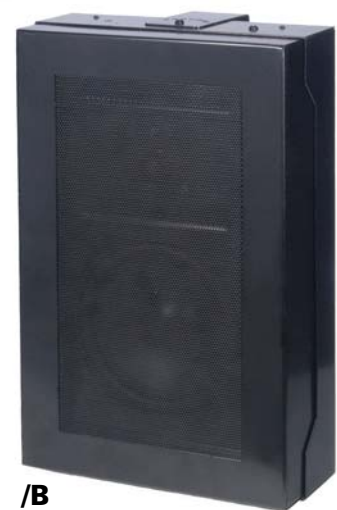
Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



/W



/B



/G



/SS



/TP

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q1/8/x is a complete, 2-way loudspeaker assembly with steel "Micro-Perf" grille and multiple position "U" bracket; 8 Ohm operation only. Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
Calculated Maximum System Output	104 dB SPL, 30W/ 1M
Frequency Response	60 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

Quam-Nichols Company

234 East Marquette Road, Chicago, IL 60637
Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
E-Mail: neednow@qnc.com www.quamspeakers.com





Quam

FM7Q1/25/x

Foreground Music Loudspeaker Assembly

All White /W

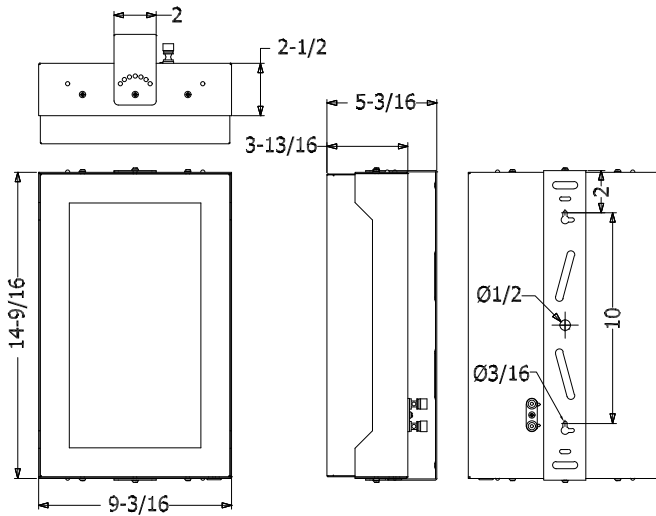
All Black /B

Black with Gray frame and Grill /G

Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



/W



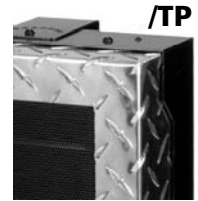
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LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q1/25/x is a complete, 2-way loudspeaker assembly with steel "Micro-Perf" grille and multiple position "U" bracket. Internally mounted transformer with externally switched 25V or 8 Ohm operation. Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
8 Ohm	91 dB-SPL 1W/ 1M
Tap Output	
Calculated Maximum System Output	103 dB SPL, 20W/ 1M, 25V mode
Frequency Response	60 Hz - 20 kHz
	EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam

FM7Q1/70/x

Foreground Music Loudspeaker Assembly

All White /W

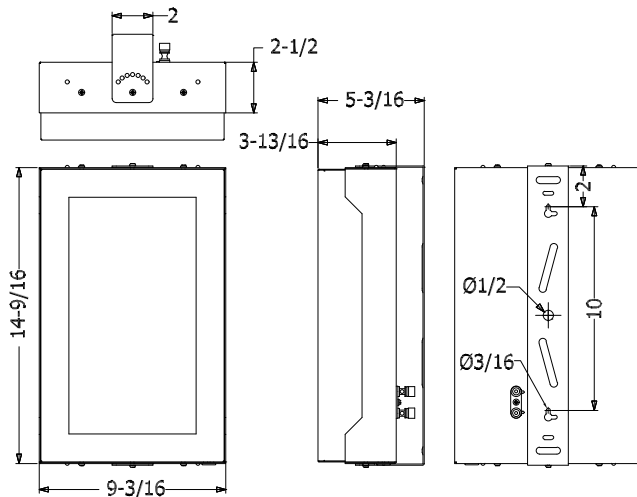
All Black /B

Black with Gray frame and Grill /G

Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



/W



/B



/G



/SS



/TP

01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q1/70/x is a complete, 2-way loudspeaker assembly with steel "Micro-Perf" grille and multiple position "U" bracket. Internally mounted transformer with externally switched 70.7V or 8 Ohm operation. Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
8 Ohm	91 dB-SPL 1W/ 1M
Tap Output	
Calculated Maximum System Output	103 dB SPL, 20W/ 1M, 70.7V mode
Frequency Response	60 Hz - 20 kHz
	EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam

FM7Q2/8/x

Foreground Music Loudspeaker Assembly

All White /W

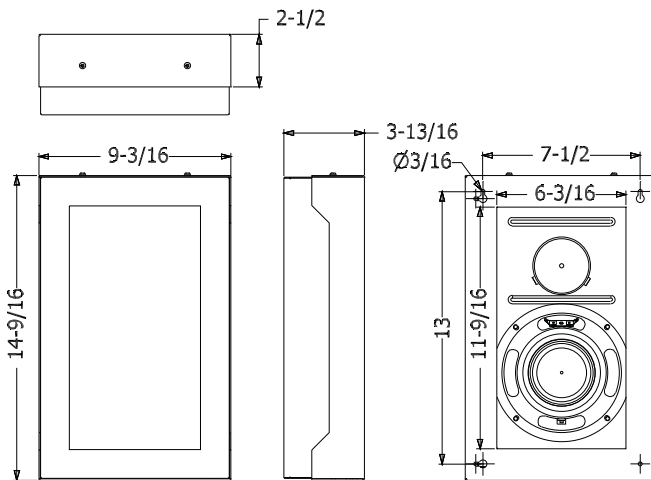
All Black /B

Black with Gray frame and Grill /G

Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q2/8/x is a complete, 2-way surface mount loudspeaker assembly with steel "Micro-Perf" grille; 8 Ohm operation only.

Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
Calculated Maximum System Output	104 dB SPL, 30W/ 1M
Frequency Response	60 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam

FM7Q2/25/x

Foreground Music Loudspeaker Assembly

All White /W

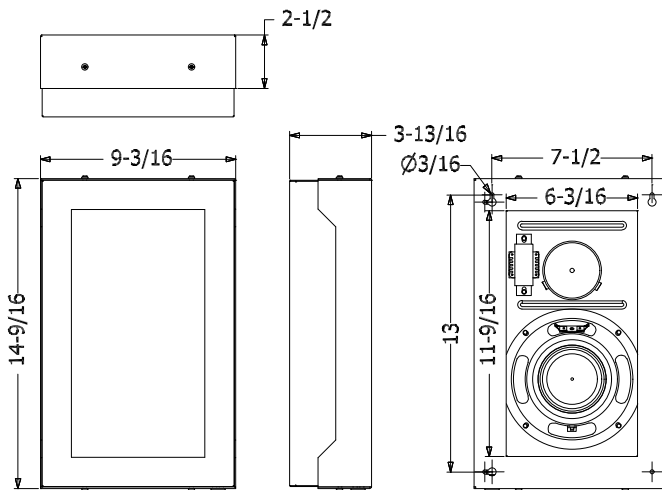
All Black /B

Black with Gray frame and Grill /G

Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q2/25/x is a complete, 2-way surface mount loudspeaker assembly with steel "Micro-Perf" grille and internally mounted transformer with externally switched 25V or 8 Ohm operation. Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
8 Ohm	91 dB-SPL 1W/ 1M
Tap Output	
Calculated Maximum System Output	103 dB SPL, 20W/ 1M, 25V mode
Frequency Response	60 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam

FM7Q2/70/x

Foreground Music Loudspeaker Assembly

All White /W

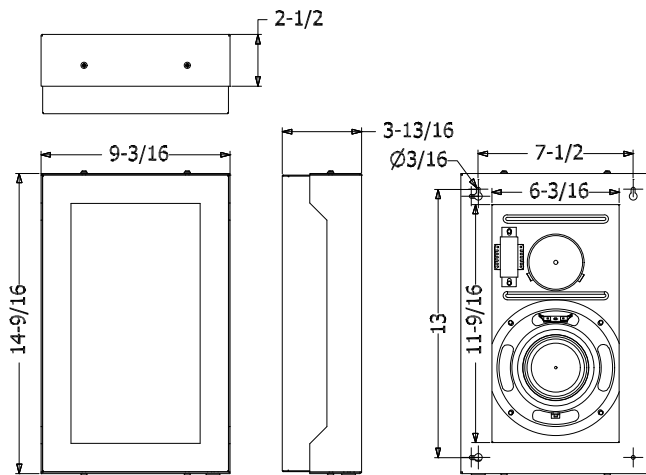
All Black /B

Black with Gray frame and Grill /G

Black with Brushed Stainless frame/ Black Grill /SS

Black with Treadplate frame/ Black Grill /TP

0101 - FOREGROUND MUSIC SPEAKER SYSTEM



01 LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam FM7Q2/70/x is a complete, 2-way surface mount loudspeaker assembly with steel "Micro-Perf" grille and internally mounted transformer with externally switched 70.7V or 8 Ohm operation. Color finishes are baked epoxy hybrid; models as described by suffix.

INTENDED USE

Protected outdoor or indoor environment, surface mount, horizontal or vertical installation
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

LF Speaker Size	6.5" diameter frame
HF Speaker Size	1" diameter
Transformer	20W, 5 taps at -3 dB levels*, or 8 Ohm operation by rotary select switch

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS

Average Sensitivity	91 dB SPL, 1W/ 1M
Power Rating	30W RMS, EIA 426A Standard
8 Ohm	91 dB-SPL 1W/ 1M
Tap Output	
Calculated Maximum System Output	103 dB SPL, 20W/ 1M, 70.7V mode
Frequency Response	60 Hz - 20 kHz
	EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/ 2 kHz, Half space
Audio Connection	Binding screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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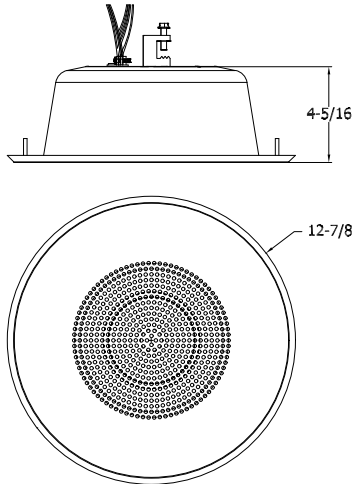




Quam

BB2
Beam Mount Speaker Assembly,
25/70.7V Transformer, Wire leads
BB2/ 70RS
Beam Mount Speaker Assembly,
70.7V Rotary Tap Select

0102- SURFACE MOUNTED SPEAKER SYSTEMS



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam BB2/x is a beam mounted, complete loudspeaker assembly consisting of a steel baffle, 8" frame loudspeaker, transformer and steel back box with two beam clamps on 5.25" centers.

Finish Options: White or black baked epoxy hybrid.

INTENDED USE

Mounted to a steel "I" beam of 5.25" maximum width, downward firing in an indoor environment.

Program material: Signal tones, voice and music

COMPONENTS AND ORDER OPTIONS

Baffle	BR8WS
Loudspeaker	8C10PAX
Back Box	ERD8U, Round, 275 CID, UL Listed with 2-installed beam clamps
Transformer Options	All versions, 5 taps at -3 dB levels
5W, 25V/70.7V pig-tail	Order as: BB2
4W, 70.7V Rotary Select	Order as: BB2/70RS
Finish Options*:	Order as: BB2/B or BB2/B/70RS

*Black only

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	BB2- 102dB SPL, 5W/ 1M BB2/70RS- 101 dB-SPL, 4W/1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	65Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut, 0.75" diameter cable clamp

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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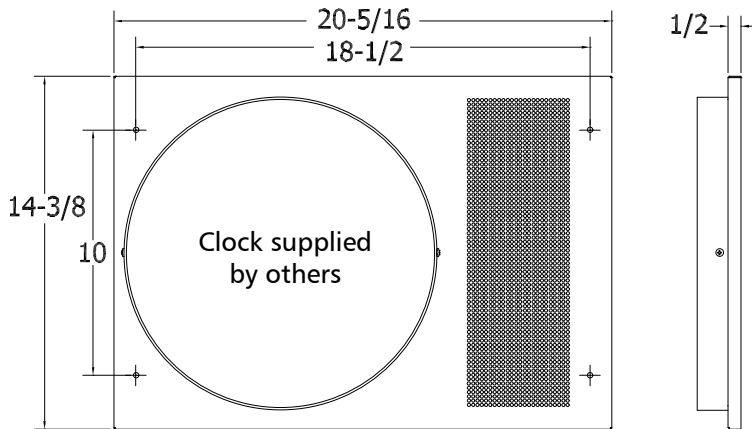


Quam

C5/BU/CK1/x

**Clock Baffle with Speaker,
25-70.7V Transformer**

0102 - SURFACE MOUNTED LOUDSPEAKER SYSTEM



**Loudspeaker Baffle shown
in 'RIGHT' position**



**Loudspeaker Baffle shown
in 'Down' position**

GENERAL DESCRIPTION

The Quam C5/BU/CK1/x is a steel clock baffle with 8" frame loudspeaker, 25 and 70.7V universal transformer. Clock mechanism is supplied by others. Finish: White baked epoxy hybrid.

INTENDED USE

Used with listed analog repeater clock mechanisms supplied by others. Loudspeaker may be oriented up, down, left or right of the display; indoor environment. Program Material: Music, voice and signal tones

LISTED SUPPLIERS

For DuKane® system	Order as: C5/BU/CK1/D
For Sapling® system	Order as: C5/BU/CK1/S

SYSTEM COMPONENTS:

Loudspeaker	8C5PAX
Transformer	TBLU (5W, 25 and 70.7V, 5 taps at -3dB levels)

REQUIRED ADDITIONAL QUAM COMPONENT

Section 0401.2- ES8-CK Flush mount box for CK1 baffle
-or-

Section 0403- SE9W Surface mount box for CK1 baffle

AUDIO SPECIFICATIONS

Speaker Size	8" Frame
Average Sensitivity	92 dB-SPL, 1W/1M
Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB-SPL, 5W/1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65Hz- 17 kHz, EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB/2 kHz, Half Space
Audio Connection	7" Long Tinned Wires, Pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

LOUDSPEAKER ASSEMBLIES 01

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
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TC5BUCK1X_09NO03

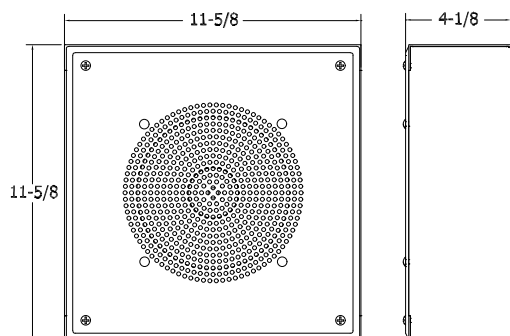




SYSTEM I

Wall Mount, Square, White

0102 - SURFACE MOUNTED SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 1 is a complete loudspeaker assembly with 8" frame loudspeaker, 25 and 70.7V universal transformer, 16 gage square steel enclosure and 22 gage baffle. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBLU- 5W, 25 and 70.7V 5 taps* at -3 dB levels
Enclosure	SE1WVP
Baffle	BS8W

* 5W, 2.5W, 1.25W, 0.63W, 0.32W

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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SYSTEM1_09MR30



Quam

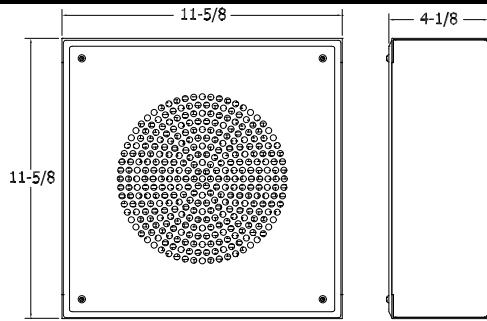
SYSTEM 1VP

Wall Mount, Square, White

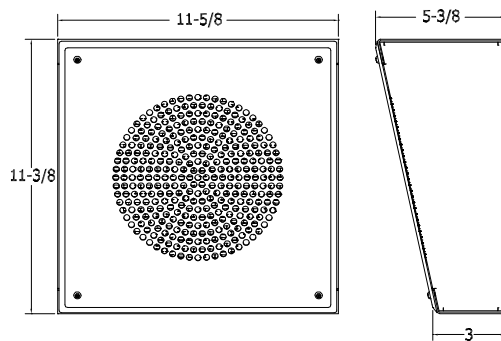
SYSTEM 2VP

Wall Mount, Slanted, White

060 I – VANDAL RESISTANT SPEAKER ASSEMBLIES



SYSTEM 1VP SHOWN



SYSTEM 2VP SHOWN



SYSTEM 2VP SHOWN

GENERAL DESCRIPTION

The Quam SYSTEM 1VP is a square format, vandal-resistant loudspeaker system.

The Quam SYSTEM 2VP is a slanted format, vandal-resistant loudspeaker system.

Both versions are a complete loudspeaker assembly, with 8" frame loudspeaker, 25/70.7V universal transformer, 16 gage square steel enclosure and baffle with #8-32 'pin-in-torx' hardware. Both versions are supplied with three (3) steel interwoven security screens mounted between the baffle and the loudspeaker. Finish: White baked epoxy hybrid.

INTENDED USE

Both variants: Protected outdoor or indoor environments

SYSTEM 1VP: Vertical or horizontal surface mount

SYSTEM 2VP: Vertical surface mount, downward firing

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C10PAOT
Transformer	TBLU-5W, 25 and 70.7V, 5 taps at -3 dB levels
Enclosure	
SYSTEM 1VP	SE1WVP
SYSTEM 2VP	SE2WVP
Baffle	BS8VP

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	94 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	104dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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06 CORRECTION / DETENTION

TSYSTEM1VP_SYSTEM2VP_11FE08

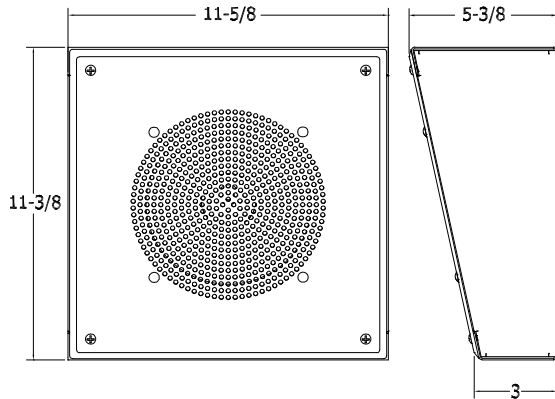


Quam

SYSTEM 2

Wall Mount, Slanted, White

0102 - SURFACE MOUNTED SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 2 is a complete loudspeaker assembly with 8" frame loudspeaker, 25 and 70.7V universal transformer, 16 gage slanted steel enclosure and 22 gage baffle.

Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment

Vertical surface mount, downward firing

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBLU- 5W, 25 and 70.7V 5 taps at -3 dB levels
Enclosure	SYSTEM 2- SE2WVP
Baffle	BS8W

* 5W, 2.5W, 1.25W, 0.63W, 0.32W

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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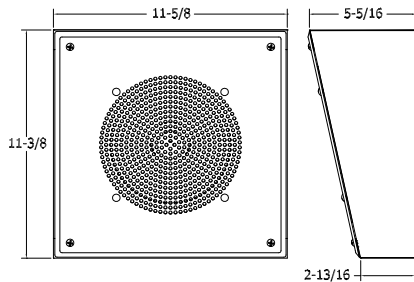


Quam

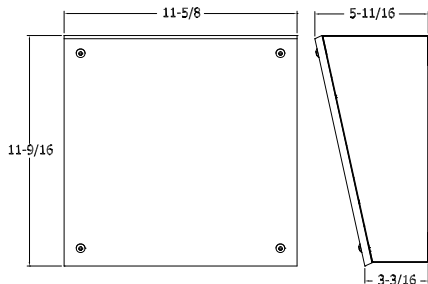
SYSTEM 3/x
Wall Mount, Square, Slanted, White

SYSTEM 4/x
Wall Mount, Square, Slanted, Black

0102- SURFACE MOUNTED SPEAKER SYSTEMS



SYSTEM 3, 3/VC



SYSTEM 4, 4/VC



SYSTEM 4 Shown

GENERAL DESCRIPTION

The Quam SYSTEM 3/x - SYSTEM 4/x is a complete loudspeaker assembly in a 22 gage slanted steel enclosure with 8" frame loudspeaker, 25/70.7V universal transformer. Available with continuous attenuator at additional cost; see below.

Finish options:

- SYSTEM 3/x: White baked epoxy hybrid enclosure, Perforated steel grille
- SYSTEM 4/x: Black baked epoxy hybrid enclosure, Wood baffle, Charcoal gray cloth wrap

INTENDED USE

Vertical surface mount, downward firing, interior environment

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBLU- 5W, 25/70.7V, 5 taps at -3 dB levels
With Attenuator	Order as SYSTEM 3/VC Order as SYSTEM 4/VC

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle:	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection:	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

01
LOUDSPEAKER ASSEMBLIES

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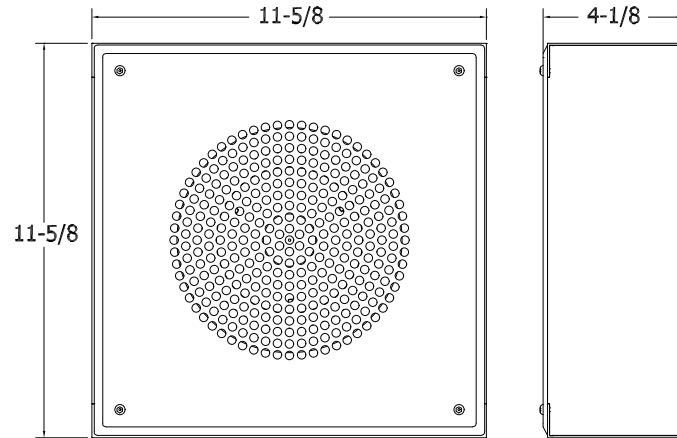


Quam

SYSTEM 6VP

Vandal Resistant, Paging Horn Speaker System

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 6VP is a complete loudspeaker assembly with double re-entrant horn, compression type loudspeaker, 25 and 70.7V universal transformer, baffle is 16 gage steel with vandal-resistant internal baffle; enclosure is 16 gage CRS with #8-32 'pin-in-torx' hardware.

Finish: White baked epoxy hybrid finish.

INTENDED USE

Outdoor or Indoor environment, vertical or horizontal surface mount

Program Material: Voice and signal tone

SYSTEM COMPONENTS

Loudspeaker:	H16
Transformer:	Integral to unit, 16W, 25 and 70.7V, 5 taps at -3dB levels*
Enclosure:	SE1WVP
Baffle:	BS8VP

*16W, 8W, 4W, 2W, 1W

AUDIO SPECIFICATIONS:

Speaker Type	Compression, re-entrant horn
Average Sensitivity	110 dB-SPL, 1W / 1M
Power Rating	16W-RMS, EIA 426A Standard
Calculated Maximum System Output	121dB-SPL, 16W/ 1M
Frequency Response	350 -10 kHz
Nominal Coverage Angle:	90° Included Angle, -6 dB / 2 kHz, Half Space
Audio Connection:	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0602- Vandal Resistant Intercom Assemblies

0603- Vandal Resistant Components

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TSYS6VP_09JN09

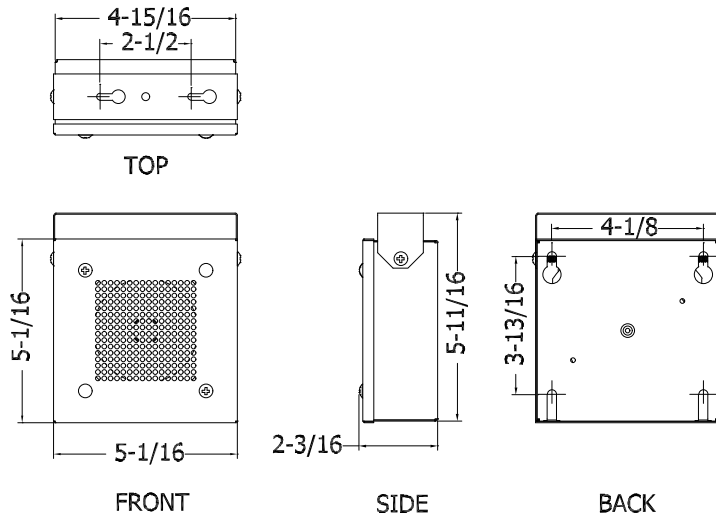


Quam

SYSTEM 7DT

Drive-Thru Menu Board Loudspeaker

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



GENERAL DESCRIPTION

The Quam SYSTEM 7DT is a complete loudspeaker assembly, with 4" frame loudspeaker - 8 Ohm operation and steel enclosure. Finish: Black baked epoxy hybrid.

INTENDED USE

Outdoor or indoor environment, Drive-thru menu board, vertical surface mount.
Program Material: Signal tones and voice

SYSTEM COMPONENTS

Loudspeaker	4C3Z80T
Enclosure	SYSTEM 7DT

AUDIO SPECIFICATIONS

Speaker Size	4" frame
Average Sensitivity	91dB SPL, 1W/ 1M
Loudspeaker Power Rating	10W RMS, EIA 426A Standard
Calculated Output	101dB SPL, 4W/ 1M
Frequency Response	130Hz - 9 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	15" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.QuamSpeakers.com

01
LOUDSPEAKER ASSEMBLIES

Quam-Nichols Company

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 Phone: (800) NEED NOW Fax: (888) NEED NOW
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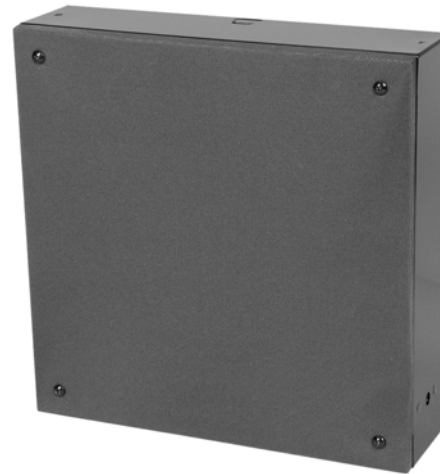
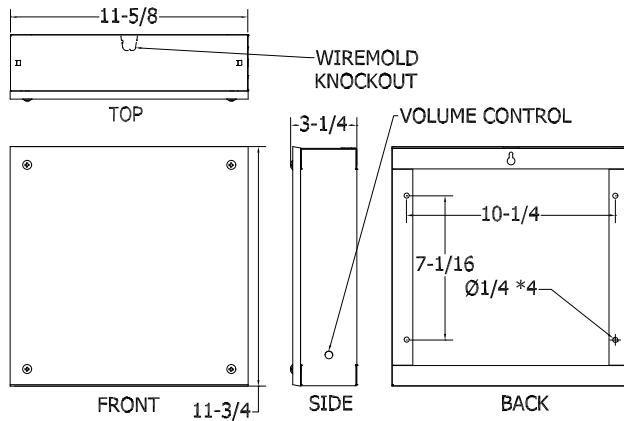


Quam

SYSTEM 8/VC

Shallow, Surface Mount Loudspeaker

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 8/VC is a complete loudspeaker assembly with 8" frame loudspeaker, 25 and 70.7V universal transformer, charcoal gray cloth baffle and CRS enclosure. Finish: Black baked epoxy hybrid.

INTENDED USE

Indoor environment, surface mount
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBLU- 5W, 25 and 70.7V 5 taps at -3 dB levels
Baffle/ Enclosure	SYSTEM 8/VC
Attenuator	Model VC- Continuous

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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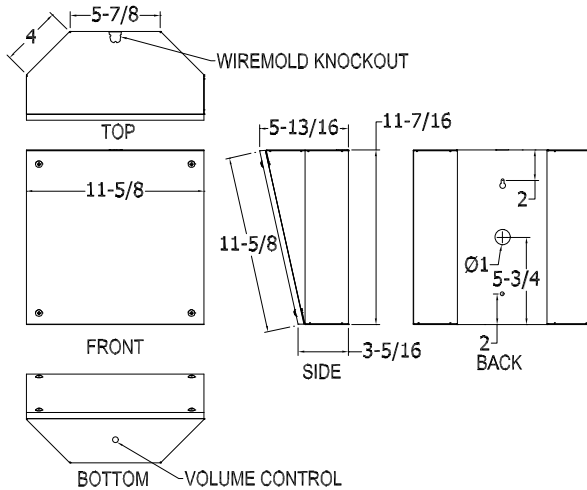


Quam

SYSTEM 9/VC

Wall or Corner Mount Loudspeaker

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 9/VC is a complete loudspeaker assembly with 8" frame loudspeaker, 25 and 70.7V universal transformer, volume control, charcoal gray cloth baffle and steel enclosure. Finish: Black baked epoxy hybrid.

INTENDED USE

Indoor environment, vertical surface mount, wall or corner position, downward firing.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBLU - 5W, 5 taps at -3 dB levels
Enclosure	SYSTEM 9/VC
Attenuator	Model VC - Continuous Attenuator

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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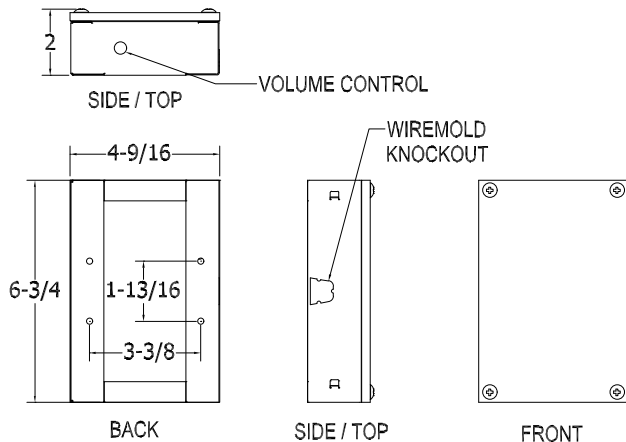


Quam

SYSTEM 10/VC

Compact, Shallow, Wall Mount Loudspeaker

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 10 is a complete loudspeaker assembly with 4" frame loudspeaker, 25 and 70.7V universal transformer, charcoal gray cloth baffle and CRS enclosure. Finish: Black baked epoxy hybrid.

INTENDED USE

Indoor environment, surface mount
Program Material: Signal tones and voice

SYSTEM COMPONENTS

Loudspeaker	4C3PA
Transformer	TBLU- 5W, 25 and 70.7V 5 taps at -3 dB levels
Enclosure	SYSTEM 10/VC
Attenuator	Model VC- Continuous

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

AUDIO SPECIFICATIONS

Speaker Size	4" frame
Average Sensitivity	96 dB SPL, 1W/ 1M
Loudspeaker Power Rating	10W RMS, EIA 426A Standard
Calculated Maximum System Output	103 dB SPL, 5W/ 1M
Frequency Response	180 Hz - 10 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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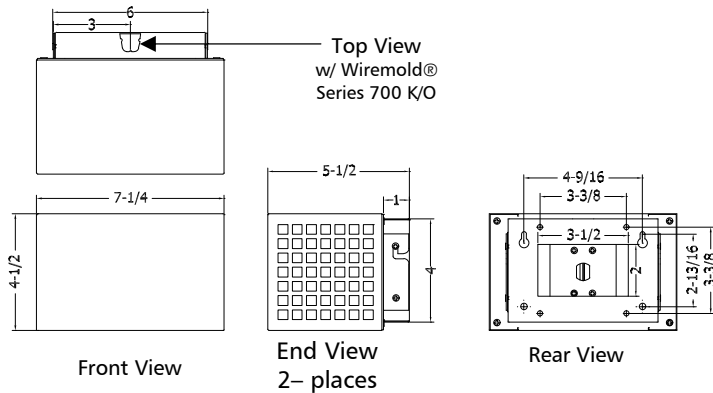


Quam

SYSTEM 30

Bi-Directional Wall Mount Paging Loudspeaker 4" Cone Speaker

0102 - SURFACE MOUNTED SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 30 is a complete, bi-directional surface mounted paging loudspeaker assembly with one 4" frame loudspeaker, 25/70.7V transformer and CRS enclosure and mount pedestal.

Finish: Enclosure: White baked epoxy hybrid
Mount pedestal: Black baked epoxy hybrid

INTENDED USE

Indoor environment– Mounted to wall or ceiling, long axis of the device parallel to the floor plane and traffic flow.
Recommended mount height: 8'-0 to 12'-0 AFF.
Program Material: Signal tones, voice

SYSTEM COMPONENT

Loudspeaker	4C3PAOT, Moisture resistant,
Transformer	TBLU, 5W, 5-taps at -3 dB levels

RECOMMENDED QUAM ACCESSORY

Drop-ceiling installation:

SSB-1900 or SSB-1900DEEP	Load-bearing support bridge with '1900' electrical junction box
-----------------------------	--

AUDIO SPECIFICATIONS

Speaker Size	4" frame
Average Sensitivity	94 dB SPL, 1W/ 1M
Loudspeaker Power Rating	10W RMS, EIA 426A Standard
Calculated Maximum System Output	101dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	200Hz - 6 kHz EIA 462A Standard
Nominal Coverage Angle (Wall Mount position)	Vertical: 90° Included Angle, Horizontal: 45° Included Angle -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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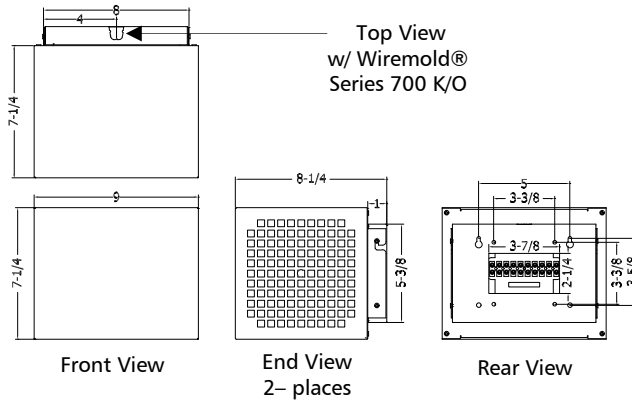




Quam

SYSTEM 31 Bi-Directional Wall Mount Paging Loudspeaker Dual Re-Entrant Horn

0102 - SURFACE MOUNTED SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 31 is a complete, bi-directional surface mounted paging loudspeaker assembly with two double re-entrant compression type loudspeakers, 25/70.7V transformer and CRS enclosure and mount pedestal.

Finish: Enclosure: White baked epoxy hybrid
Mount pedestal: Black baked epoxy hybrid

INTENDED USE

Outdoor or indoor environment– Mounted to wall or ceiling, long axis of the device parallel to the floor plane and traffic flow. Recommended mount height: 8'-0 to 12'-0 AFF. Program Material: Signal tones, voice

SYSTEM COMPONENTS

Loudspeaker	2x H16T
Transformer	16W, Integral to unit 25/70.7V, 5 taps at -3dB levels* *16W, 8W, 4W, 2W, 1W

RECOMMENDED QUAM ACCESSORY

Drop-ceiling installation:

SSB-1900 or SSB-1900DEEP	Load-bearing support bridge with '1900' electrical junction box
-----------------------------	--

AUDIO SPECIFICATIONS

Speaker Type	2x Double re-entrant compression
Average Sensitivity	110 dB SPL, 1W/ 1M (Each side)
Loudspeaker Power Rating	16W RMS, EIA 426A Standard ea. 2x devices, 32W total
Calculated Maximum System Output	122 dB SPL, 16W/ 1M, on axis either side
Frequency Response	300Hz - 15 kHz EIA 462A Standard
Nominal Coverage Angle (Wall Mount position)	Vertical: 90° Included Angle, Horizontal: 45° Included Angle -6 dB / 2 kHz, Half space
Audio Connection	Terminal block

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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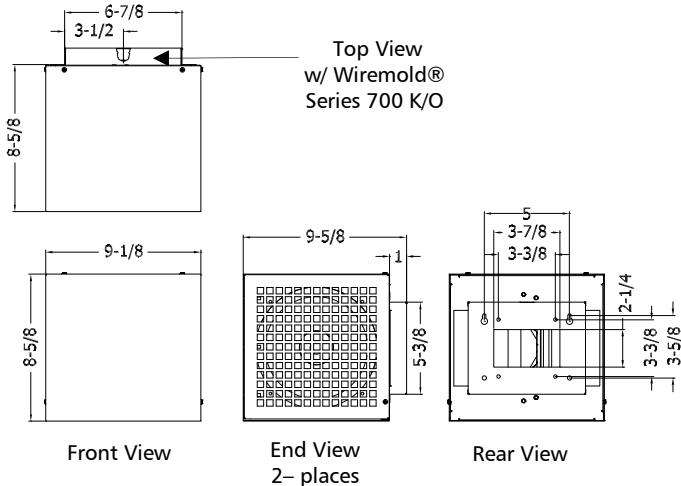


Quam

SYSTEM 32

Bi-Directional Wall Mount Paging Loudspeaker 8" Cone Speaker

0102 - SURFACE MOUNTED SPEAKER SYSTEM



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 32 is a complete, bi-directional surface mounted paging loudspeaker assembly with one 8" frame, loudspeaker, 25/70.7V transformer and CRS enclosure and mount pedestal.

Finish: Enclosure: White baked epoxy hybrid
Mount pedestal: Black baked epoxy hybrid

INTENDED USE

Indoor environment— Mounted to wall or ceiling, long axis of the device parallel to the floor plane and traffic flow.
Recommended mount height: 8'-0 to 12'-0 AFF.
Program Material: Signal tones, voice

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	93 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	101 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	80Hz - 8 kHz EIA 462A Standard
Nominal Coverage Angle (Wall Mount position)	Vertical: 90° Included Angle, Horizontal: 45° Included Angle -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

SYSTEM COMPONENT

Loudspeaker	8C10PAOT
Transformer	TBLU, 5W, 5-taps at -3dB levels

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED QUAM ACCESSORY

Drop-ceiling installation:

SSB-1900 or SSB-1900DEEP	Load-bearing support bridge '1900' electrical junction box
-----------------------------	---

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(800) 633 - 3669 (888) 633 - 3669
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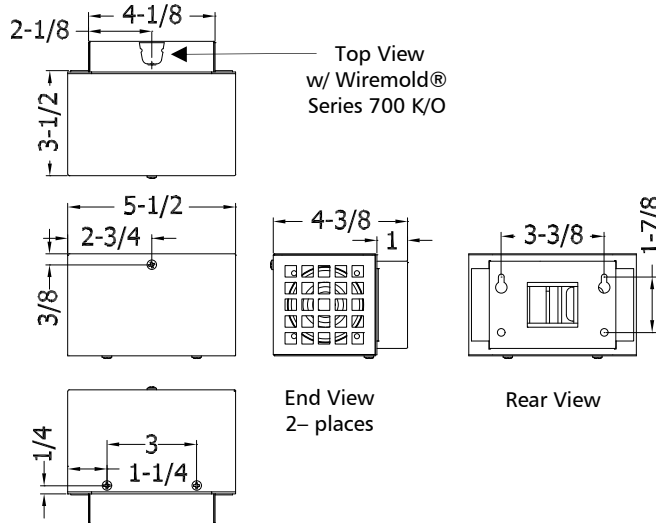


Quam

SYSTEM 33

Bi-Directional Wall Mount Paging Loudspeaker 2-1/2" Cone Speaker

0102 - SURFACE MOUNTED SPEAKER SYSTEM



GENERAL DESCRIPTION

The Quam SYSTEM 33 is a complete, bi-directional surface mounted paging loudspeaker assembly with one 2-1/2" frame, moisture-resistant loudspeaker, 25/70.7V transformer and CRS enclosure and mount pedestal.

Finish: Enclosure: White epoxy hybrid powder coat
Mount pedestal: Black epoxy hybrid powder coat

INTENDED USE

Indoor environment– Mounted to wall or ceiling, long axis of the device parallel to the floor plane and traffic flow.
Recommended mount height: 8'-0 to 12'-0 AFF.
Program Material: Signal tones, voice

SYSTEM COMPONENT

Loudspeaker	25C25Z80TK
Transformer	TBLU, 5W, 5-taps at -3dB levels

AUDIO SPECIFICATIONS

Speaker Size	2-1/2" frame
Average Sensitivity	87 dB SPL, 1W/ 1M
System Power Rating	5W RMS, EIA 426A Standard
Calculated Maximum System Output	94 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 2.35 oz. Nominal
Frequency Response	220Hz - 6 kHz EIA 462A Standard
Nominal Coverage Angle (Wall Mount position)	Vertical: 90° Included Angle, Horizontal: 45° Included Angle -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

01

LOUDSPEAKER ASSEMBLIES

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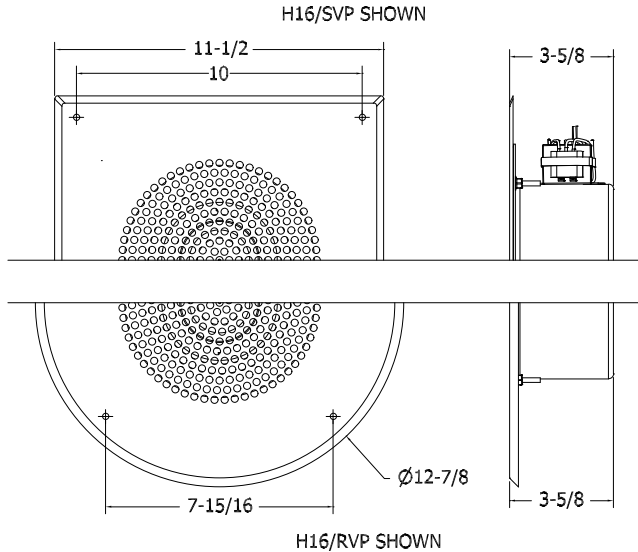


Quam

H16/RVP
Paging Horn, Transformer, Vandal Resistant Round Baffle

H16/SVP
Paging Horn, Transformer, Vandal Resistant Square Baffle

0103 - PAGING HORN



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam H16/xVP is a loudspeaker assembly with double re-entrant horn, compression type loudspeaker, 25 and 70.7V universal transformer, 16 gage steel baffle and #8 x 32 'pin-in-torx' hardware.
Finish: White baked epoxy hybrid finish.

INTENDED USE

Outdoor, indoor environment, vertical or horizontal surface mount

Program Material: Signal tone and voice

SYSTEM COMPONENTS

Loudspeaker:	H16T
Transformer:	Integral to unit, 16W, 25V or 70.7V, 5 taps at -3dB levels*
Round Baffle:	BR8VP, Order as H16/RVP
Square Baffle:	BS8VP, Order as H16/SVP

*16W, 8W, 4W, 2W, 1W

RECOMMENDED ADDITIONAL QUAM COMPONENTS

H16/SVP Only

0401.2 - Square, Flush Mounted Back Boxes

For *interior* applications

ES8- 4" deep -or-

ES8-6- 6" deep

0603- Vandal Resistant Surface Mount Enclosures

For *exterior* applications

SE1WVP- Square -or-

SE2WVP- Slanted

AUDIO SPECIFICATIONS

Speaker Type:	Compression, re-entrant horn
Average	110 dB-SPL, 1W / 1M
Sensitivity:	
Power rating:	16W-RMS, EIA 426A Standard
Calculated Maximum System Output	122dB-SPL, 16W/ 1M
Frequency Response	350 -10 kHz
Nominal	90° Included Angle,
Coverage Angle:	-6 dB / 2 kHz, Half Space
Audio	7" long, color-coded tinned
Connection:	wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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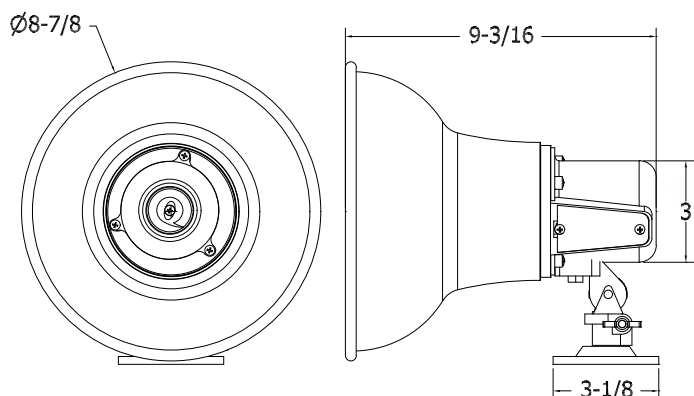
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QH16T

Paging Horn with Universal Mount

0103 - PAGING HORN



GENERAL DESCRIPTION

The Quam QH16T is a weatherproof loudspeaker assembly with double re-entrant horn, compression type driver, 25V and 70.7V universal transformer and adjustable, universal mounting flange.
Finish: Tan enamel

INTENDED USE

Outdoor or indoor environment, vertical or horizontal surface mount; adapts to pole mount

Program Material: Voice and signal tone

SYSTEM COMPONENTS

Loudspeaker:	QH16T
Transformer:	25V/ 70.7V, 16W, Integral to unit 5 taps at -3dB levels*

* 16W, 8W, 4W, 2W, 1W

AUDIO SPECIFICATIONS

Speaker Type	Compression, re-entrant horn
Average Sensitivity	110 dB-SPL, 1W/ 1M
Power rating	16W-RMS, EIA 426A Standard
Calculated Maximum System Output	121 dB-SPL, 16W / 1M
Frequency Response	300 - 15 kHz EIA 426A Standard
Nominal Coverage Angle	110° Included angle, -6dB 2 kHz
Transformer Tap Selection	Selector switch
Audio Connection	Binding Screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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(800) 633 - 3669 (888) 633 - 3669
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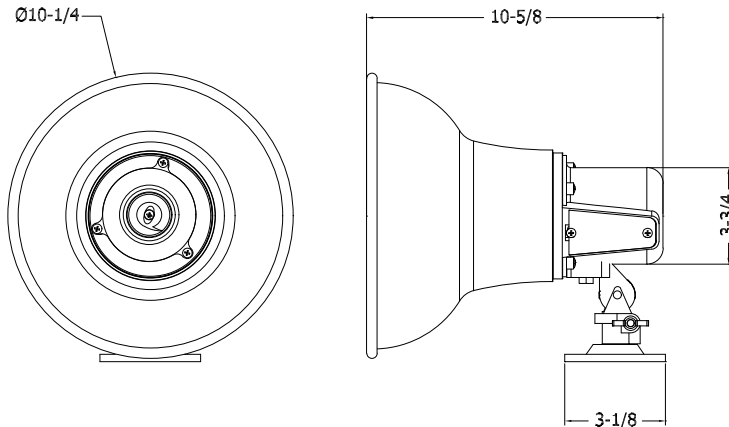


Quam

QH32T

32W Paging Horn with Universal Mount

0103 - PAGING HORN



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam QH32T is a weatherproof loudspeaker assembly with double re-entrant horn, compression type driver, 25V and 70.7V universal transformer and adjustable, universal mounting flange.
Finish: Tan enamel

INTENDED USE

Outdoor or indoor environment, vertical or horizontal surface mount; adapts to pole mount

Program Material: Voice and signal tone

SYSTEM COMPONENTS

Loudspeaker	QH32T
Integral Transformer	25V/ 70.7V, 32W Max. Input Taps at -3dB levels as follows: 25V: 32W, 16W, 8W, 4W, 2W 70V: 32W, 16W, 8W, 4W

AUDIO SPECIFICATIONS

Speaker Type	Compression, re-entrant horn
Average Sensitivity	110 dB-SPL, 1W/ 1M
Power rating	32W-RMS, EIA 426A Standard
Calculated Maximum System Output	124 dB-SPL, 32W / 1M
Frequency Response	300 - 15 kHz
Nominal Coverage Angle	EIA 426A Standard
Transformer Tap Selection	110° Included angle, -6dB
Audio Connection	2 kHz
	Selector switch
	Binding Screw

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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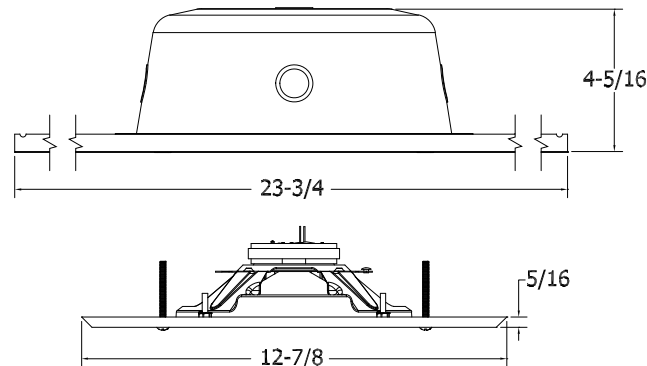
SOLUTION 1

8" Loudspeaker Assembly with Baffle, Back Can Universal Transformer and Tile Bridge

SOLUTION 2

8" Loudspeaker Assembly with Baffle, Back Can Universal Transformer, Tile Bridge and Volume Control

0104.1 – INSTALLER PACKAGE For Lay-In Ceiling Tile Installations



EXPLODED VIEW FOR CLARITY
Baffle, speaker and transformer are assembled

GENERAL DESCRIPTION

The Quam SOLUTION 1 is the components required for a pair of completely assembled loudspeakers. Speaker/ dual-voltage transformer/ baffle is pre-assembled; additional labor and assembly required on site.

Quam SOLUTION 2– as above, with volume control in center of loudspeaker baffle. Adjustment by supplied knob or screwdriver adjust with knob removed.

Baffle finish: White baked epoxy hybrid.

Shipped as a complete pair in one carton

INTENDED USE

Indoor environment, downward-firing installed in a 24" wide drop-tile ceiling

Program Material: Paging and background music

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer	TBLU-5W, 25/70.7V, 5-taps at -3 dB levels
Baffle	BR8WS
Volume Control SOLUTION 2 Only	VC– Continuous
Back Can	ERD8U, UL Listed-UUMW
Tile Bridge Support	SSB-3

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB-SPL, 5W/1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response:	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, tinned and pre-cut
Electrical Access	5x 1/2"/3/4" conduit knock-outs spaced 90° apart, one on top

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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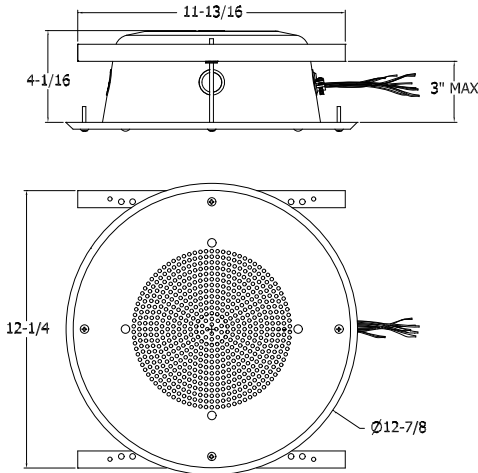




SYSTEM 21

8" Loudspeaker Assembly with Baffle, Back Can, Universal Transformer and Mounting Rails

0104.1 – INSTALLER PACKAGE *For Blind Mount into Hard Ceilings*



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 21 is a completely assembled dual-voltage transformer and loudspeaker assembly with integral mounting rails for blind-mount into hard ceiling structures up to 3 inches thick.

Baffle finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment

Program Material: Paging and background music

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer	TBLU-5W, 25/70.7V, 5-taps at -3 dB levels
Baffle	BR8W
Back Can	ERD8U, UL Listed-UUMW

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB-SPL, 5W/1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, tinned and pre-cut
Electrical Access	1/2" clamp for flexible conduit, side-mount

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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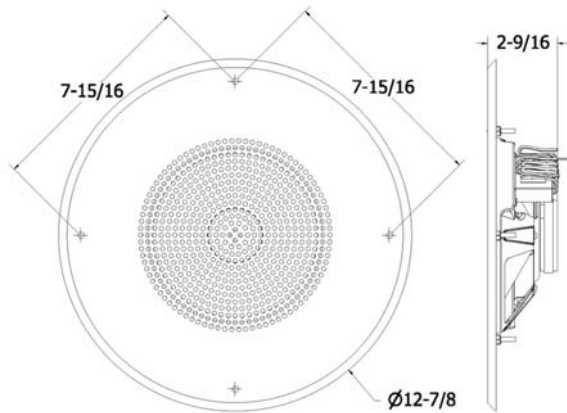
C5 Series

**0104.2 - Speaker, Transformer, Baffle and
Universal Volume Control**

0104.3 - Speaker, Transformer, Baffle

0104.3 - Speaker, Transformer

0104 - CEILING MOUNTED SPEAKER ASSEMBLIES



GENERAL DESCRIPTION

The Quam C5/xx/ Wx/x is a complete loudspeaker assembly, with 8" frame, 12W dual-cone loudspeaker, steel baffle as specified; transformer and volume control as specified. Finish: Baffle, white baked epoxy hybrid, Loudspeaker, black baked epoxy hybrid.

Loudspeaker Mounting Options:

Screw mount or welded stud mount

Transformer options: 25V, 70.7V or 25V/70.7V, pig-tail

Volume Control, Universal- If specified: Screw / knob

INTENDED USE

All variants: Downward facing, ceiling mounted,
Interior environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer Options	5 taps at -3 dB levels
25V, 4W	Order as C5/B25/Wx/xx
70.7V, 4W	Order as C5/B70/Wx/xx
25V/70.7V, 5W	Order as C5/BU/Wx/xx
Baffle Options	
Screw Mount	Order as C5/xx/W/xx
Stud Mount	Order as C5/xx/WS/xx
Volume Control Option	Order as C5/xx/xx/VC

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

- 0401.1- Backboxes, Round
- 0402- Loudspeaker mounting devices

ADDITIONAL COMPONENT SUBSTITUTIONS AVAILABLE

Contact Factory

0104.6- Customer Specified Assembly

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	12W-RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB-SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

01
LOUDSPEAKER ASSEMBLIES

Quam-Nichols Company

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
E-Mail: neednow@qnc.com www.quamspeakers.com

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TC5SER_09MR30



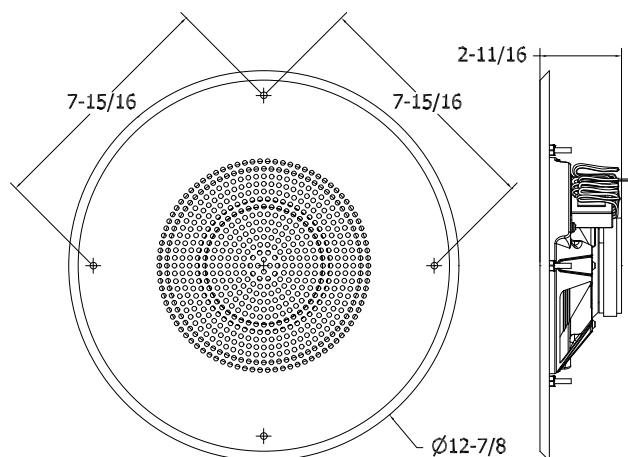
C10X Series

0104.2 - Speaker, Transformer, Baffle and
Universal Volume Control

0104.3 - Speaker, Transformer, Baffle

0104.4 - Speaker, Transformer

0104 - CEILING MOUNTED SPEAKER ASSEMBLIES



GENERAL DESCRIPTION

The Quam C10X/xx/ Wx/x is a complete loudspeaker assembly, with 8" frame, 20W dual-cone loudspeaker, steel baffle as specified; transformer and volume control as specified. Finish: Baffle, white baked epoxy hybrid, Loudspeaker, black baked epoxy hybrid.

Loudspeaker Mounting Options:

Screw mount or welded stud mount

Transformer Options: 25V, 70.7V or 25V/70.7V, pig-tail

Volume Control, Universal- If specified: Screw or knob

INTENDED USE

All variants: Downward facing, ceiling mounted,
Interior environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer Options	5 taps at -3 dB levels
25V, 4W	Order as C10X/B25/Wx/xx
70.7V, 4W	Order as C10X/B70/Wx/xx
25V/70.7V, 5W	Order as C10X/BU/Wx/xx
Baffle Options	
Screw Mount	Order as C10X/xx/W/xx
Stud Mount	Order as C10X/xx/WS/xx
Volume Control Option	Order as C10X/xx/xx/VC

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

0401.1- Backboxes, Round

0402-Loudspeaker mounting devices

ADDITIONAL COMPONENT SUBSTITUTIONS AVAILABLE

Contact Factory

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB-SPL, 5W/ 1M 101 dB-SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17kHz
Nominal Coverage Angle	90° Included Angle -6 dB / 2 kHz, Half space
Audio Connection:	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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234 East Marquette Road, Chicago, IL 60637

Phone: (800) NEED NOW Fax: (888) NEED NOW

(800) 633 - 3669

(888) 633 - 3669

E-Mail: neednow@qnc.com

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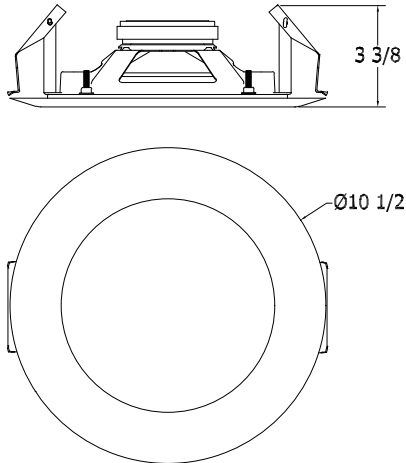


Quam

C10FX/H70/Q2

Ceiling Mounted Speaker Assembly
Gypsum Board or Ceiling Tile Mount

0104.3.1 - SPEAKER, TRANSFORMER, BAFFLE, QMOUNT



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam C10FX/H70/Q2 is a complete loudspeaker assembly, with 8" frame loudspeaker, low-loss, extended bandwidth universal transformer, 2-piece designer steel baffle and QMount™ installation system.
Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment, mounted parallel to floor plane in either blind-mount in 5/8" gypsum board ceiling or conventional 24" x 24" (or larger) ceiling tile up to 5/8" thick.
Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Baffle	Q2
Loudspeaker	8C10FEPAX
Transformer	TCH70-10W/ 70.7V, 5 taps at -3 dB levels, Low-loss, extended band width
Installation System	QMount™

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Ceiling tile application requires use of SSB9 Tile Bridge

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	105 dB SPL, 10W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	40Hz - 18 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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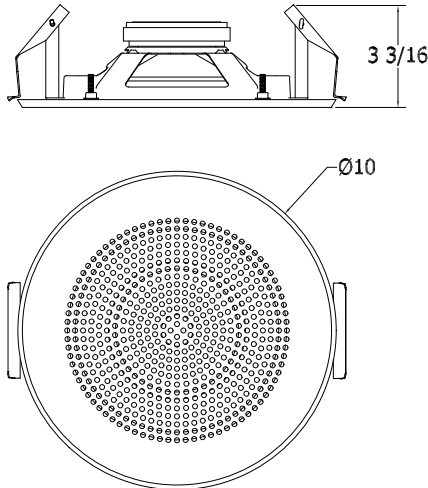


Quam

C5/BU/Q1

**Ceiling Mounted Speaker Assembly
Gypsum Board or Ceiling Tile Mount**

0104.3.1 - SPEAKER, TRANSFORMER, BAFFLE, QMOUNT



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam C5/BU/Q1 is a complete loudspeaker assembly, with 8" frame loudspeaker, 25 and 70.7V universal transformer, standard perforated steel baffle and QMount™ installation system.

Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment, mounted parallel to floor plane in either blind-mount in 5/8" gypsum board ceiling or conventional 24" x 24" (or larger) ceiling tile up to 5/8" thick. Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Baffle	Q1
Loudspeaker	8C5PAX
Transformer	TBLU- 5W, 25/ 70.7V, 5 taps at -3 dB levels, both voltages
Installation System	QMount™

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Ceiling tile application requires use of SSB9 Tile Bridge

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	99 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	80Hz - 8 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

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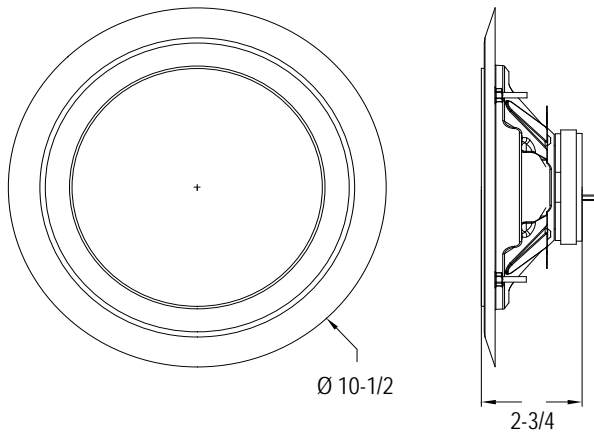
C10FX/H70/2WS

0104.3 - Speaker, Transformer, Baffle

0104 - CEILING MOUNTED SPEAKER ASSEMBLIES

01

LOUDSPEAKER ASSEMBLIES



GENERAL DESCRIPTION

The Quam C10FX/H70/2WS is a complete loudspeaker assembly, with 8" frame, 20W loudspeaker with urethane foam surround and concentric mount hard fiber cone, 70V, 10W low-loss, extended LF transformer and 2-piece designer steel baffle.

Finish: Baffle, white baked epoxy hybrid,
Loudspeaker, black baked epoxy hybrid.

INTENDED USE

All variants: Downward facing, ceiling mounted,
Interior environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C10FEPAX
Transformer	TCH70
	5 taps at -3 dB levels
Baffle	BR8-2WS

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

- 0401.1- Backboxes, Round
- 0402 -Loudspeaker mounting devices

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB-SPL, 5W/ 1M 101 dB-SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	40Hz - 18kHz
Nominal Coverage Angle	90° Included Angle -6 dB / 2 kHz, Half space
Audio Connection:	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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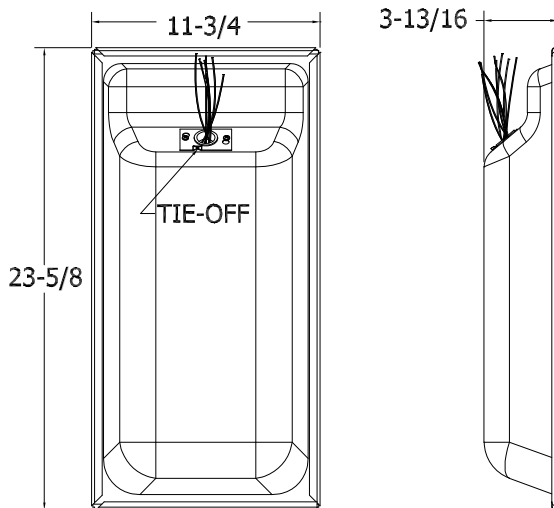
SYSTEM 5/8

8-Ohm Only



0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



SYSTEM 5 Shown

CITY of CHICAGO ★ APPROVED

GENERAL DESCRIPTION

The Quam SYSTEM 5/8 is a complete loudspeaker assembly, with 8" frame, perforated steel baffle and integral back box; impedance is nominal 8 Ohms. One 24" white "T" bar supplied to finish edge.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.
Program Material: Signal tones, voice and music.

UL Listed 1480- As a General Signaling Device: Used in conjunction with a compatible listed recording and reproducing equipment; installation and application compliant with requirements of NEC and AHJ.

CITY of CHICAGO APPROVED- Material and construction permits use where ceiling plenum is part of the air handling system.

SYSTEM COMPONENTS:

Loudspeaker	8C5PAX
Finish options	Order as SYSTEM 5/8/B
Black only	

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity:	92 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	103dB-SPL, 12W / 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" long labeled, tinned wires, pre-cut

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at:

www.QuamSpeakers.com/support-pages/ae-resources.shtml

LOUDSPEAKER ASSEMBLIES

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
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TSYSTEM5/8_11MR22



SYSTEM 5
25V/ 70.7V Pig-Tail Lead

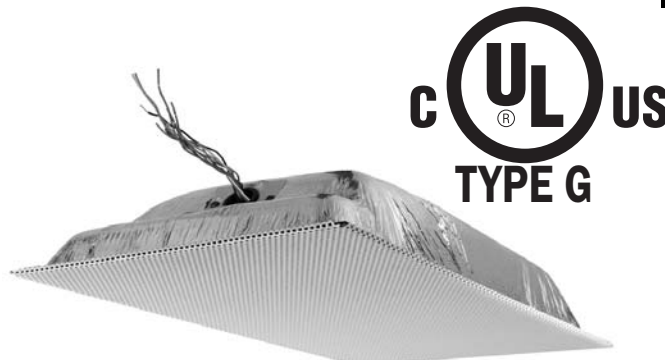
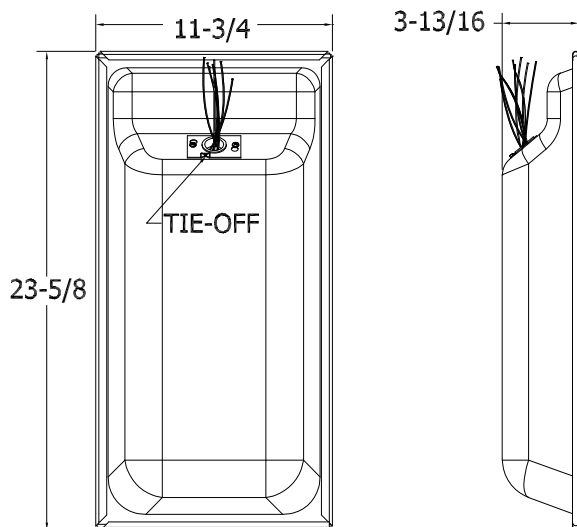
SYSTEM 5/VC *
25V/ 70.7V Pig-Tail Lead, Volume Control

SYSTEM 5/ 25RS
25V Rotary Select Tap

SYSTEM 5/ 70RS
70.7V Rotary Select Tap

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



SYSTEM 5 Shown

CITY of CHICAGO ★ APPROVED

GENERAL DESCRIPTION

The Quam SYSTEM 5/xxxx/x is a complete loudspeaker assembly, with 8" frame, perforated steel baffle and integral back box. One 24" white "T" bar supplied to finish edge.

Transformer Options: 25/70.7V pigtail, 25V rotary select or 70.7 rotary select.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

All variants: Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.

Program Material: Signal tones, voice and music.

UL Listing 1480- As a General Signaling Device: Used in conjunction with a compatible listed recording and reproducing equipment; installation and application compliant with requirements of NEC and AHJ. (* All except SYSTEM 5/VC)

CITY of CHICAGO APPROVED- Material and construction permits use where ceiling plenum is part of the air handling system.

SYSTEM COMPONENTS:

Loudspeaker	8C5PAX
Transformer (all below)	5 taps at -3dB levels
25V/70.7V/ 5W pig-tail	Order as SYSTEM 5
25V/70.7V/ 5W pig-tail with Volume Control	Order as SYSTEM 5/ VC * (Not UL Listed)
25V/ 4W Rotary select	Order as SYSTEM 5/25RS
70.7V/ 4W Rotary select	Order as SYSTEM 5/70RS
Finish options	Order as SYSTEM 5/xxxx/B
Black only	

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity	92 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	5W pig-tail xfm: 99 dB-SPL/ 1M 4W rotary tap xfm: 98 dB-SPL/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65 Hz - 17 kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" long labeled, tinned wires, pre-cut

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at:

www.QuamSpeakers.com/support-pages/ae-resources.shtml

Quam-Nichols Company

234 East Marquette Road, Chicago, IL 60637
Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669

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TSYSTEM5_11MR22

LOUDSPEAKER ASSEMBLIES



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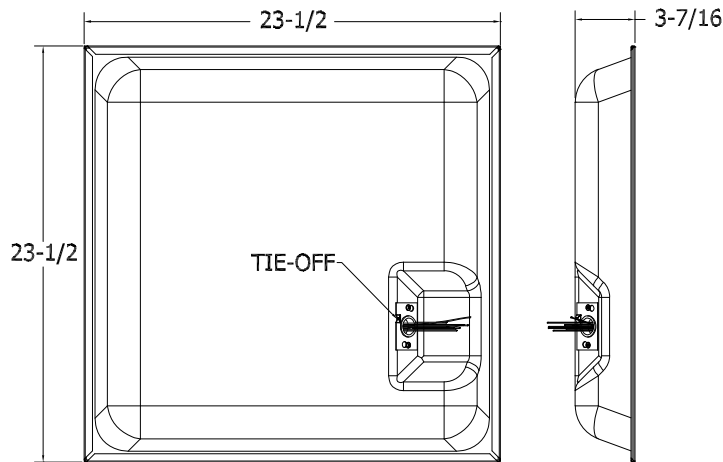
SYSTEM 12/8

8-Ohm



0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



SYSTEM 12 Shown



CITY of CHICAGO ★ APPROVED

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 12/8 is a complete loudspeaker assembly, with 8" frame, perforated steel baffle and integral back box; system impedance is nominal 8 Ohms.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.

Program Material: Signal tones, voice and music.

UL Listed 1480 (Type G)- As a General Signaling Device:

Used in conjunction with a compatible listed recording and re-producing equipment; installation and application compliant with requirements of NEC and AHJ.

CITY of CHICAGO APPROVED- Material and construction permits use where ceiling plenum is part of the air handling system.

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity	92 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	103 dB-SPL, 12W / 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	42 Hz - 17 kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" long, labeled tinned wires, pre-cut

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at:

www.QuamSpeakers.com/support-pages/ae-resources.shtml

SYSTEM COMPONENTS:

Loudspeaker	8C5PAX
Finish options	Order as SYSTEM 12/8/B
Black only	

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TSYSTEM12/8_11MR22



Quam

SYSTEM 12
25V/70.7V Pig-Tail Lead

SYSTEM 12/VC *

25V/70.7V Pig-Tail Lead, Volume Control

SYSTEM 12/25RS

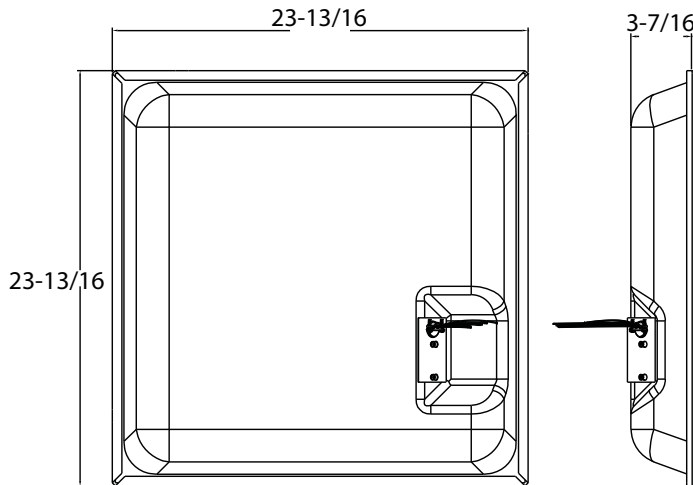
25V Rotary Select Tap

SYSTEM 12/70RS

70.7V Rotary Select Tap

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



SYSTEM 12 Shown



CITY of CHICAGO ★ APPROVED

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 12/xxxx/x is a complete loudspeaker assembly, with 8" frame, perforated steel baffle and integral back box.

Transformer Options: 25/70.7V pigtail, 25V rotary select or 70.7 rotary select.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

All variants: Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.
Program Material: Signal tones, voice and music.

UL Listed 1480- As a General Signaling Device: Used in conjunction with a compatible listed recording and reproducing equipment; installation and application compliant with requirements of NEC and AHJ. (* All except SYSTEM 12/VC)

CITY of CHICAGO APPROVED- Material and construction permits use where ceiling plenum is part of the air handling system.

SYSTEM COMPONENTS:

Loudspeaker	8C5PAX
Transformer (all below)	5 taps at -3dB levels
25V/70.7V/ 5W pig-tail	Order as SYSTEM 12
25V/70.7V/ 5W pig-tail With Volume Control	Order as SYSTEM 12/VC * (Not UL Listed)
25V/ 4W Rotary select	Order as SYSTEM 12/25RS
70.7V/ 4W Rotary select	Order as SYSTEM 12/70RS
Finish options	Order as SYSTEM 12/xxxx/B
Black only	

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity	92 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	5W pig-tail xfm, 99 dB-SPL, 5W / 1M 4W Rotary tap xfm, 98 dB-SPL, 4W / 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	42Hz - 17 kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" long, labeled tinned wires, pre-cut

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at:

www.QuamSpeakers.com/support-pages/ae-resources.shtml

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669

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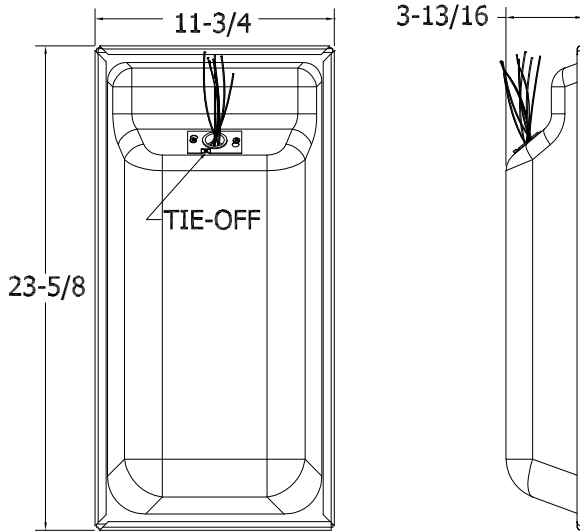


Quam

SYSTEM 14

**Tile Replacement Loudspeaker Assembly
Extended Frequency Response**

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 14 is a complete loudspeaker assembly, with 8" frame, wide frequency response, co-axial loudspeaker, 70.7V transformer, perforated steel baffle and integral back box. One 24" white "T" bar supplied to finish edge.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

Mounted parallel to floor plane in a 24" wide suspended ceiling tile grid; indoor environment.

Program Material: Music, voice and signal tones

SYSTEM COMPONENTS:

Loudspeaker	8C10FECO
Transformer	TCH70, 10W, 5 taps at -3dB levels, low-loss, extended LF
Finish options	Order as SYSTEM 14/B
Black only	

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	105dB-SPL, 10W / 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	40—20kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half Space
Audio Connection	7" long, color coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

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 Phone: (800) NEED NOW Fax: (888) NEED NOW
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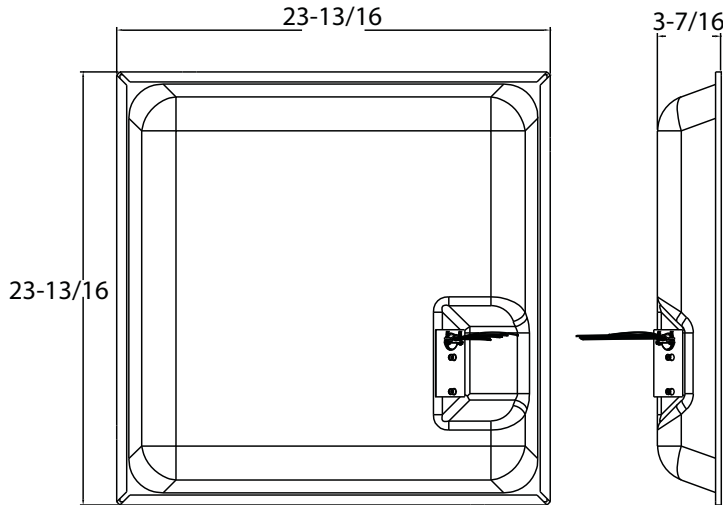


Quam

SYSTEM 15

Tile Replacement Loudspeaker Assembly
Extended Frequency Response

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 15 is a complete loudspeaker assembly, with 8" frame, wide frequency response, coaxial loudspeaker, 70.7V transformer, perforated steel baffle and integral back box.

Finish options: White or black baked epoxy hybrid.

INTENDED USE

Mounted parallel to floor plane in a 24" wide suspended ceiling tile grid; indoor environment.

Program Material: Music, voice and signal tones

SYSTEM COMPONENTS:

Loudspeaker	8C10FECO
Transformer	TCH70,10W, 5 taps at -3dB levels, low-loss, extended LF
Finish options	Order as SYSTEM 15/B
Black only	

RECOMMENDED ADDITIONAL QUAM COMPONENTS
N/A

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	105 dB-SPL, 10W / 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	40 - 20kHz EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" long labeled, tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TSYSTEM15_09JY23



SYSTEM 16

70V, Extended Frequency Response
Tile Replacement Loudspeaker Assembly

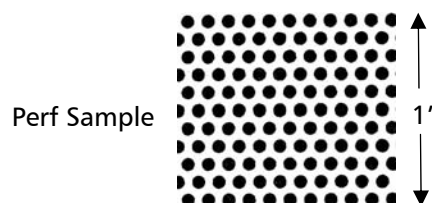
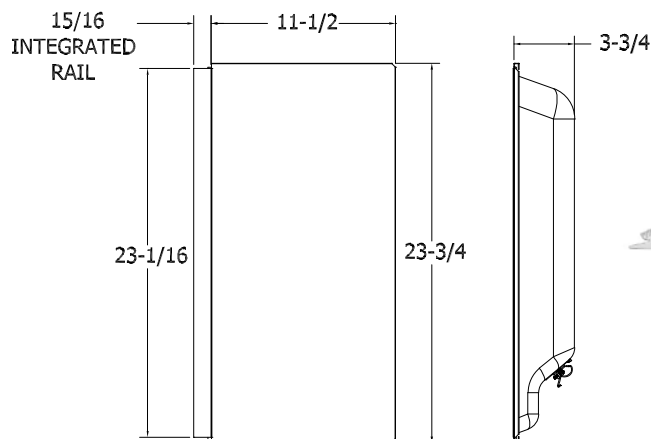
SYSTEM 16/8

8-Ohm, Extended Frequency Response
Tile Replacement Loudspeaker Assembly

SYSTEM 16/25RS

25V, Rotary Select, Extended Frequency Response
Tile Replacement Loudspeaker Assembly

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)



GENERAL DESCRIPTION

The Quam SYSTEM 16/x is a complete, extended frequency response loudspeaker assembly, with 8" frame loudspeaker, "micro-perf" steel baffle, integrated back box and trim rail on 23-3/4" side.

Finish: White baked epoxy hybrid.

INTENDED USE

Mounted parallel to floor plane in a 24" wide suspended ceiling tile grid; indoor environment.

Program Material: Music, voice and signal tones

SYSTEM COMPONENTS:

Loudspeaker	8C10FEPAX (Urethane foam surround, hard fiber HF cone)
Transformer (SYSTEM 16 Only)	TCH70—10W*, pig-tail, Low-loss, Extended LF response, 5-taps, -3dB each
Transformer (SYSTEM 16/25RS Only)	TBL25—4W**, Rotary select, 5-taps, -3dB each

*10W, 5W, 2.5W, 1.25W, 0.63W
** 4W, 2W, 1W, 0.5W, 0.25W

AUDIO SPECIFICATIONS:

Speaker Size	8" frame
Average Sensitivity	95 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	20W-RMS, EIA 426A Standard
Calculated Maximum System Output	105dB-SPL, 10W / 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	50—18kHz (SYSTEM 16) 65—18kHz (SYSTEM 16/25RS) EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB 2 kHz, half space
Audio Connection	7" pre-cut, labeled wires

Recommended construction sequences, installation instructions, wiring diagrams and A&E Guide Specifications are available in various formats on the web at:

www.QuamSpeakers.com >RESOURCES

Quam-Nichols Company

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
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TSYSTEM16/x_10NO09



SYSTEM 19

70.7V, Rotary Select, 2-Way, Full Range
Ceiling Tile Replacement Loudspeaker

SYSTEM 19/8

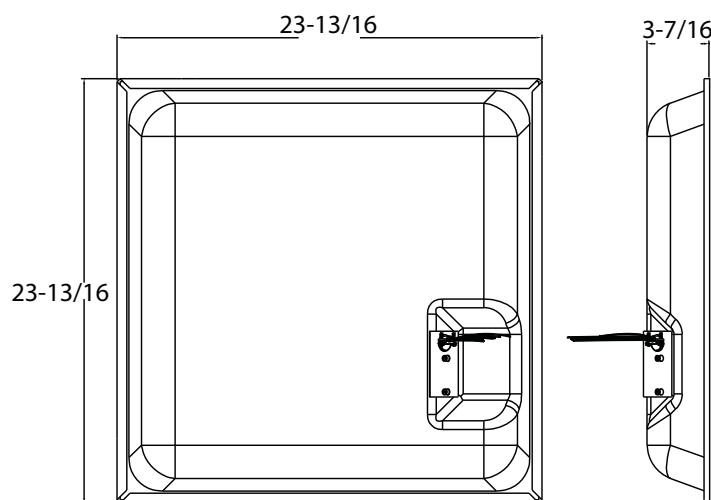
8-Ohm, 2-Way, Full Range
Ceiling Tile Replacement Loudspeaker

SYSTEM 19/25RS

25V, Rotary Select, 2-Way, Full Range
Ceiling Tile Replacement Loudspeaker

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



SYSTEM 19 Shown

GENERAL DESCRIPTION

The Quam SYSTEM 19/x is a complete, 2-way extended frequency response loudspeaker assembly with perforated steel baffle, and integral back box.

Impedance options described below

Finish options: White or black baked epoxy hybrid.

INTENDED USE

Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.

Program Material: Music, voice and signal tones.

SYSTEM COMPONENTS

LF Speaker	150mm (6") diameter frame, polypropylene cone, butyl surround
HF Speaker	25.4mm (1") diameter Mylar dome
SYSTEM 19 (70.7V Transformer)	20W, 5 taps at -3 dB levels * by rotary select switch
SYSTEM 19/ 25RS (25V Transformer)	4W, 5 taps at -3 dB levels ** by rotary select switch
SYSTEM 19/8 8-Ohm	30W-RMS
Special Finish option	Black only, Order as SYSTEM 19/xx/B

*20W, 10W, 5W, 2.5W, 1.25W

**4W, 2W, 1W, 0.5W, 0.125W

AUDIO SPECIFICATIONS:

Average Sensitivity	91 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	30W RMS, EIA 426A Standard
Calculated Maximum System Output	104 dB-SPL, 20W / 1M
Frequency Response	60Hz - 20 kHz (SYSTEM 19, 19/8) 65Hz - 20 kHz (SYSTEM 19/25RS) EIA 426A Standard
Nominal Coverage Angle	100° Included angle, -6dB
Coverage Angle	2 kHz, half space
Audio Connection	7" long, color coded tinned wires

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at:

www.QuamSpeakers.com/support-pages/ae-resources.shtml

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234 East Marquette Road, Chicago, IL 60637

Phone: (800) NEED NOW Fax: (888) NEED NOW

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TSYSTEM19_10NO016



SYSTEM20

Aluminum Raised Tread Plate Pattern Baffle,
2-Way, Full Range, 70.7V, Rotary Select

SYSTEM20/B

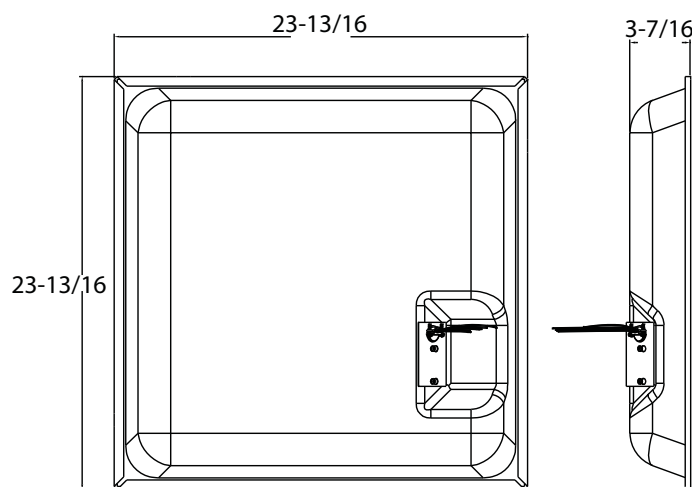
As above, Black Epoxy Hybrid finish

SYSTEM20/W

As above, White Epoxy Hybrid finish

0104.5 - LAY-IN CEILING MOUNT (TILE REPLACEMENT)

01



GENERAL DESCRIPTION

The Quam SYSTEM 20 is a complete, 2-way extended frequency response loudspeaker assembly, with perforated 'raised tread plate pattern' aluminum baffle, rotary tap 70.7V transformer and integral back box.

Finish options: 'Bright aluminum', white or black baked epoxy hybrid over raised tread plate pattern.

INTENDED USE

Indoor environment, mounted parallel to floor plane in a 24" wide suspended ceiling tile grid.

Program Material: Music, voice and signal tones.

SYSTEM COMPONENTS

LF Speaker	150mm (6") diameter frame, polypropylene cone, butyl surround
HF Speaker	25.4mm (1") diameter Mylar dome
Transformer	20W, 5 taps at -3 dB levels *, Rotary select with OFF position
Finish options	Black only, Order as SYSTEM 20/B White only, Order as SYSTEM 20/W

*20W, 10W, 5W, 2.5W, 1.25W

AUDIO SPECIFICATIONS:

Average Sensitivity	91 dB-SPL, 1W/ 1M
Loudspeaker Power Rating	30W RMS, EIA 426A Standard
Calculated Maximum System Output	104dB-SPL, 20W / 1M
Frequency Response Nominal	60Hz - 20 kHz EIA 426A Standard 100° Included angle, -6dB
Coverage Angle	2 kHz, half space
Audio Connection	7" long, color coded tinned wires

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

LOUDSPEAKER ASSEMBLIES

Quam-Nichols Company

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Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
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TSYSTEM20_09NO09



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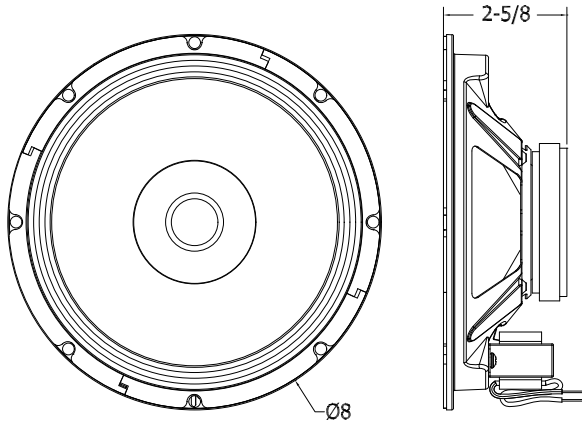
SPKR/XFM/BAF/VC (Opt)

Your specific loudspeaker, transformer, baffle and termination for your project

0104.6- CUSTOMER SPECIFIED ASSEMBLY

01

LOUDSPEAKER ASSEMBLIES



Your part number here



Your part number here

GENERAL DESCRIPTION

Since 1930, Quam has made millions of loudspeakers and thousands of combinations of components right here in Chicago. We think we have made most of the 'problem solvers' that you would ever need for your projects- but there's always a new one to be designed. Give us a call- we're ready to solve your problems.

Finish Options: White or baked epoxy hybrid, stainless steel

INTENDED USE

Outdoor or indoor environments with extreme temperature and humidity fluctuations or fire retardant- we've done them all!

Program Material: Signal tones, voice and music

COMPONENTS AND ORDER OPTIONS

Baffle Choose from 12 in-stock versions
Loudspeaker Choose from 10 in-stock versions
-or let us know your requirements
Back Box We've probably got it on stock
Transformer Options 25v, 70.7V or 100V
Pig-tail or rotary taps

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0301- Baffles, Round -or-
0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-
0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	Customer Specified
Average Sensitivity	Product Specific
Loudspeaker Power Rating	Product Specific
Calculated Output	Product Specific
Magnet Type, Weight	Customer Specified
Frequency Response	Product Specific
Nominal Coverage Angle	Product Specific
Audio Connection	Customer Specified

Don't forget..

Because your Custom Specified Assembly is made here in Chicago, it's shipped from here.

Over 95% of our customers' orders are shipped the same day!

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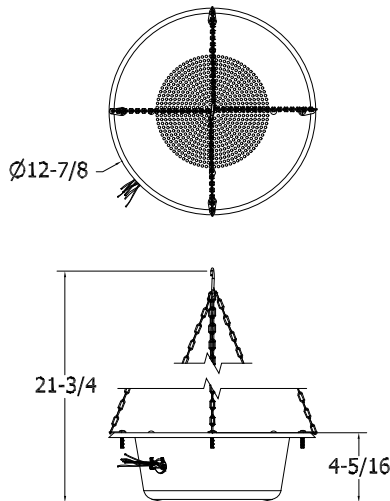
MA/E5/S7/T1

Economy Sound Masking Assembly, Wire Leads

MA/E5/S7/T8

Economy Sound Masking Assembly, Rotary Select

0105- SOUND MASKING SPEAKER ASSEMBLY



T8 Termination
shown



LOUDSPEAKER ASSEMBLIES 01

GENERAL DESCRIPTION

The Quam MA/E5/S7/Tx is a complete sound masking loudspeaker assembly, with 8" frame loudspeaker, 70.7V transformer, dust-proof perforated steel baffle, 275 CID / 4.4 L drawn steel back box with internal, rigid foam damping material.

Termination options:

Wire pig-tail tap select Order as: MA/E5/S7/T1
Rotary tap select Order as: MA/E5/S7/T8

Finish: White baked epoxy hybrid.

INTENDED USE

Suspended by supplied chain mounting hardware between the structural deck and suspended ceiling deck in the following orientations: upwards, downwards or sideways; indoor environment.

Program Material:

Primary use: Equalized random noise
Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C5PAX
Transformer	TBL70 (4W/ 70.7V, 5 taps at -3 dB levels)
Enclosure	ERD8U

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Loudspeaker Power Rating	12W RMS, EIA 426A Standard
Calculated Maximum System Output	98 dB SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8 oz. Nominal
Frequency Response	65Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Mechanical Connection	Light steel chain, 4'-0" long, supplied
Signal Cable Entry	Through 1/2" conduit clamp
Audio Connection	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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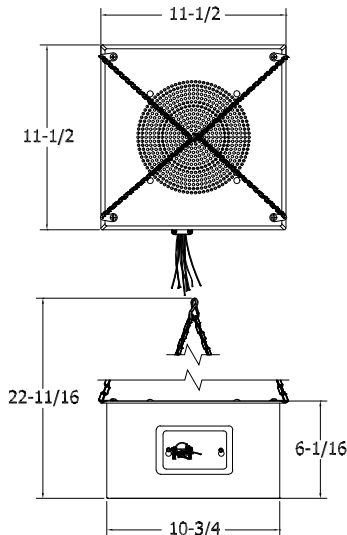
Quam

MA/E6/S2/T1
'Quiet Steel'® Sound Masking Assembly, Wire Leads

MA/E6/S2/T8
'Quiet Steel'® Sound Masking Assembly, Rotary Select

City of Chicago ★ Approved

0105- SOUND MASKING SPEAKER ASSEMBLY



T1 Termination shown



GENERAL DESCRIPTION

The Quam MA/E6/S2/Tx is a complete sound masking loudspeaker assembly, with 8" frame loudspeaker, 70.7V transformer, dust-proof perforated steel baffle and 690 CID / 11.1 L bi-metal composite QuietSteel® back box.

Termination options:

Wire pig-tail tap select Order as: MA/E6/S2/T1
Rotary tap select Order as: MA/E6/S2/T8

Finish: White baked epoxy hybrid.

INTENDED USE

Suspended by supplied chain mounting hardware between the structural deck and suspended ceiling deck in the following orientations: upwards, downwards or sideways; indoor environment.

CITY OF CHICAGO: Material and construction permits use where ceiling plenum is part of the air handling system.

Program Material:

Primary use: Equalized random noise
Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer	TBL70 (4W/ 70.7V, 5 taps at -3 dB levels)
Enclosure	MA / E6

RECOMMENDED ADDITIONAL QUAM COMPONENTS

N/A

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	101dB SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Mechanical Connection	Light steel chain, 4'-0" long, supplied
Signal Cable Entry	1/2" conduit clamp through single-gang cover plate
Audio Connection	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

LOUDSPEAKER ASSEMBLIES 01

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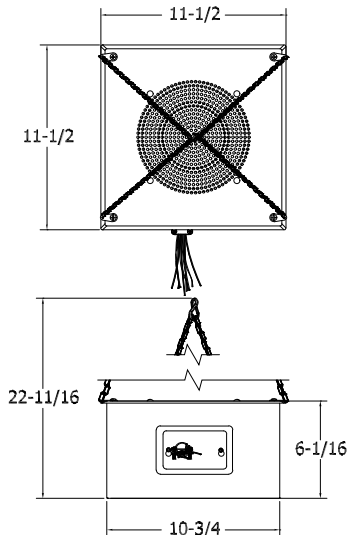
Quam

MA/E6/S4/T1
'Quiet Steel'® Sound Masking Assembly, Wire Leads

MA/E6/S4/T8
'Quiet Steel'® Sound Masking Assembly, Rotary Select

City of Chicago ★ Approved

0105- SOUND MASKING SPEAKER ASSEMBLY



T1 Termination shown



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam MA/E6/S4/Tx is a complete sound masking loudspeaker assembly, with 8" frame co-axial loudspeaker, 70.7V transformer, dust-proof perforated steel baffle and 690 CID / 11.1 L bi-metal composite QuietSteel® back box.

Termination options:

Wire pig-tail tap select Order as: MA/E6/S4/T1
Rotary tap select Order as: MA/E6/S4/T8

Finish: White baked epoxy hybrid.

INTENDED USE

Suspended by supplied chain mounting hardware between the structural deck and suspended ceiling deck in the following orientations: upwards, downwards or sideways; indoor environment.

CITY OF CHICAGO: Material and construction permits use where ceiling plenum is part of the air handling system.

Program Material:

Primary use: Equalized random noise
Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C10CO
Transformer	TBL70 (4W/ 70.7V, 5 taps at -3 dB levels)
Enclosure	MA / E6

RECOMMENDED ADDITIONAL QUAM COMPONENTS
N/A

AUDIO SPECIFICATIONS

Speaker Size:	8" frame
Average Sensitivity:	95 dB SPL, 1W/ 1M
Loudspeaker Power Rating:	20W RMS, EIA 426A Standard
Calculated Maximum System Output:	101dB SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response:	60Hz - 17 kHz EIA 462A Standard
Nominal :	90° Included Angle,
Coverage Angle:	-6 dB / 2 kHz, Half space
Mechanical Connection	Light steel chain, 4'-0" long, supplied
Signal Cable Entry	1/2" conduit clamp through single-gang cover plate
Audio Connection	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam

MA/E8/S2/T1

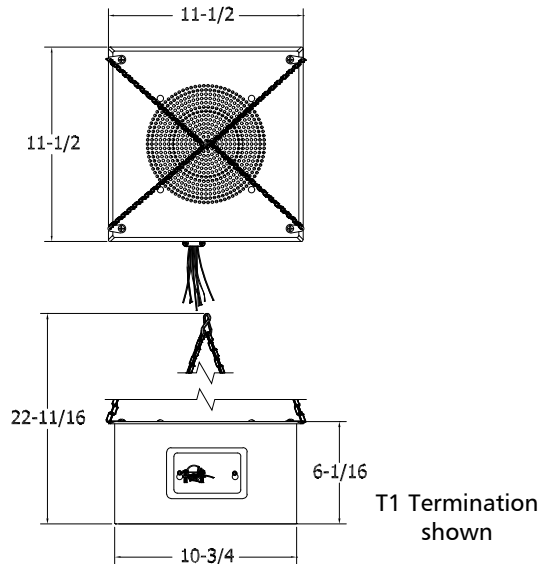
Standard Sound Masking Assembly, Wire Leads

MA/E8/S2/T8

Standard Sound Masking Assembly, Rotary Select

City of Chicago ★ Approved

0105- SOUND MASKING SPEAKER ASSEMBLY



LOUDSPEAKER ASSEMBLIES 01

GENERAL DESCRIPTION

The Quam MA/E8/S2/Tx is a complete sound masking loudspeaker assembly, with 8" frame loudspeaker, 70.7V transformer, dust-proof perforated steel baffle and 690 CID / 11.1 L steel back box and internal, rigid foam damping material.

Termination options:

Wire pig-tail tap select Order as: MA/E8/S2/T1
Rotary tap select Order as: MA/E8/S2/T8

Finish: White baked epoxy hybrid.

INTENDED USE

Suspended by supplied chain mounting hardware between the structural deck and suspended ceiling deck in the following orientations: upwards, downwards or sideways; indoor environment.

CITY OF CHICAGO: Material and construction permits use where ceiling plenum is part of the air handling system.

Program Material:

Primary use: Equalized random noise
Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer	TBL70 (4W/ 70.7V, 5 taps at -3 dB levels)
Enclosure	MA / E8

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	101dB SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Mechanical Connection	Light steel chain, 4'-0" long, supplied
Signal Cable Entry	1/2" conduit clamp through single-gang cover plate
Audio Connection	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Since 1930

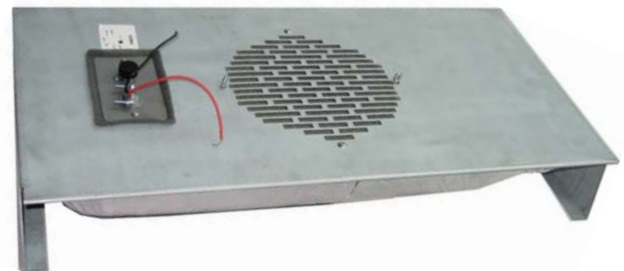
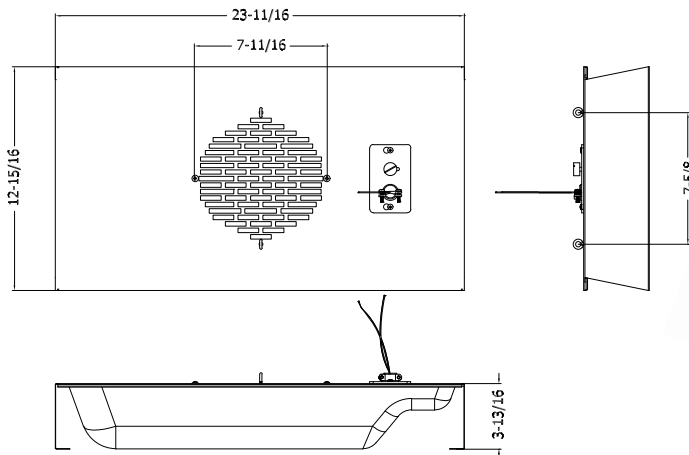


Quam

MA/E9/S2/T8

Ceiling Grid Mount, Sound Masking Assembly,
Rotary Select

0105- SOUND MASKING SPEAKER ASSEMBLY



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam MA/E9/S2/T8 is a complete sound masking loudspeaker assembly, with 8" frame loudspeaker, 70.7V transformer, dust-proof perforated steel baffle and 610 CID / (10.0¢) composite back box.

Finish: Rust-resistant CRS

INTENDED USE

Placed upward-facing on 24" wide ceiling tile on conventional suspended ceiling grid; indoor environment.

Program Material:

Primary use: Equalized random noise

Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C10PAX
Transformer	TBL70 (4W/ 70.7V, 5 taps at -3 dB levels*)

* 4W, 2W, 1W, 0.5W, 0.13W

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	101dB SPL, 4W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	65Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Mechanical Connection	Seismic tie-offs provided on top of unit if required by AHJ
Signal Cable Entry	1/2" conduit clamp through single-gang cover plate
Audio Connection	7" long, tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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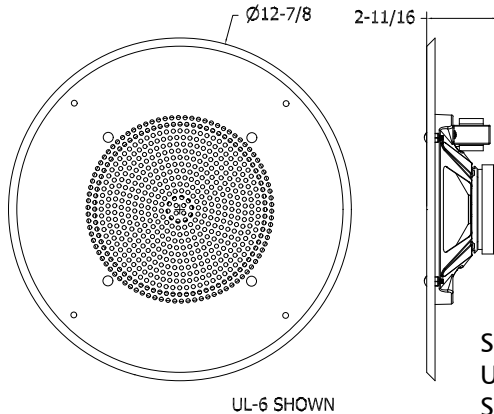
UL-5 Fire Alarm Signaling Device, 70.7V

UL-6 General Signaling Device, 70.7V

UL-7 Fire Alarm Signaling Device, 25V

UL-8 General Signaling Device, 25V

0106- UL LISTED SPEAKER ASSEMBLY



Shown without ERD-8,
UL Listed Back Box ,
Shipped separately



01

LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam UL-5 or UL-7 is a UL Listed (1480) loudspeaker assembly, transformer, line supervision capacitor and back box used as a fire alarm signaling device. Finish: White baked epoxy hybrid.

The Quam UL-6 or UL-8 is a UL Listed (1480) loudspeaker assembly, transformer, and back box used as a general (non-fire alarm) signaling device. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment.

Program Material: Signal tones, voice and music

As a Fire Signaling Device: Used in conjunction with an output voltage compatible, UL listed control unit; installation and application compliant with requirements of NFPA 72 and AHJ.

As a General Signaling Device: Used in conjunction with an output voltage compatible, UL listed recording and reproducing equipment; installation and application compliant with requirements of NEC and AHJ.

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Section 0402 - Loudspeaker Mounting Devices

SYSTEM COMPONENTS

Loudspeaker - All Units	8C10PAFR
Transformer - All Units	5 taps, 5W, 2W, 1W, 0.5W, 0.25W
UL-5 / UL-6	Model UT-70-5 (70.7V operation)
UL-7 / UL-8	Model UT-25-5 (25V operation)
Line Supervision Capacitor	ULSC-10 (UL-7) ULSC-4 (UL-5)
Back Box - All units	ERD-8
Baffle - All units	BR8W

AUDIO SPECIFICATIONS

Speaker Size	8" Frame
Average Sensitivity	95 dB SPL, 1W / 1M
Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB SPL, 5W / 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60 Hz - 12 kHz, EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half Space
Audio Connection*	Common: Dual 12" pre-cut wires Taps: Dual 12" red wires with field-selectable, push-on connector

*NOTE: Additional common and tap wires used for supervised systems

Recommended construction sequences, installation instructions, A&E Guide Specifications, **EASE .GLL / .CF2 files**, are available on the web at: www.QuamSpeakers.com/support-pages/ae-resources.shtml

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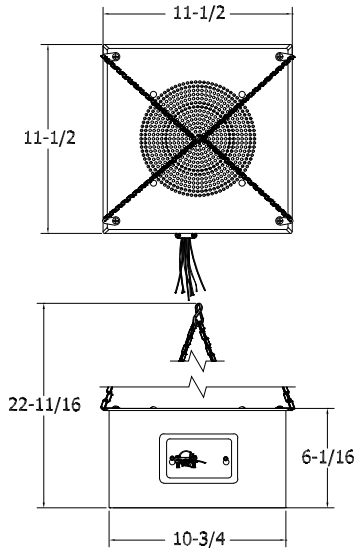
Quam



UL-10

690 CID 'Quiet Steel'® Assembly
UL Listed 1480
UEAY- Plenum Applications
UUMW- Fire Protective Signaling
City of Chicago★Approved 5346E

0106- UL LISTED SPEAKER ASSEMBLY



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam UL-10 is a complete sound masking loudspeaker assembly with 8" frame loudspeaker with fire retardant cone, 70.7V transformer, dust-proof perforated steel baffle and 690 CID / 11.1 L bi-metal composite Quiet Steel® back box.

Finish: White baked epoxy hybrid.

INTENDED USE

Suspended by supplied chain mounting hardware between the structural deck and suspended ceiling deck in the following orientations: upwards, downwards or sideways; indoor environment.

UL Listed 1480

UL UAEY- Plenum Applications

UL UUMW- Fire Protective Signaling

CITY OF CHICAGO★5643E: material and construction permits use where ceiling plenum is part of the air handling system.

Program material:

Primary use: Equalized random noise

Secondary use: Signal tones or equalized voice

SYSTEM COMPONENTS

Loudspeaker	8C10PAFR
Transformer	UT-70-5, Integral to UL Listed system 5W /70.7V, 5 taps*
Enclosure	MA / E6

*5W, 2W, 1W, 0.5W, .25W

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	102 dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 10 kHz EIA 462A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half space
Mechanical Connection	Light steel chain, 5'-0" long, supplied
Signal Cable Entry	1/2" conduit clamp through single gang cover plate
Audio Connection:	2- 7" long, color-coded tinned wires, pre-cut
Transformer Tap Selection	Push-on, jumper-to-lug; shipped in 1W position

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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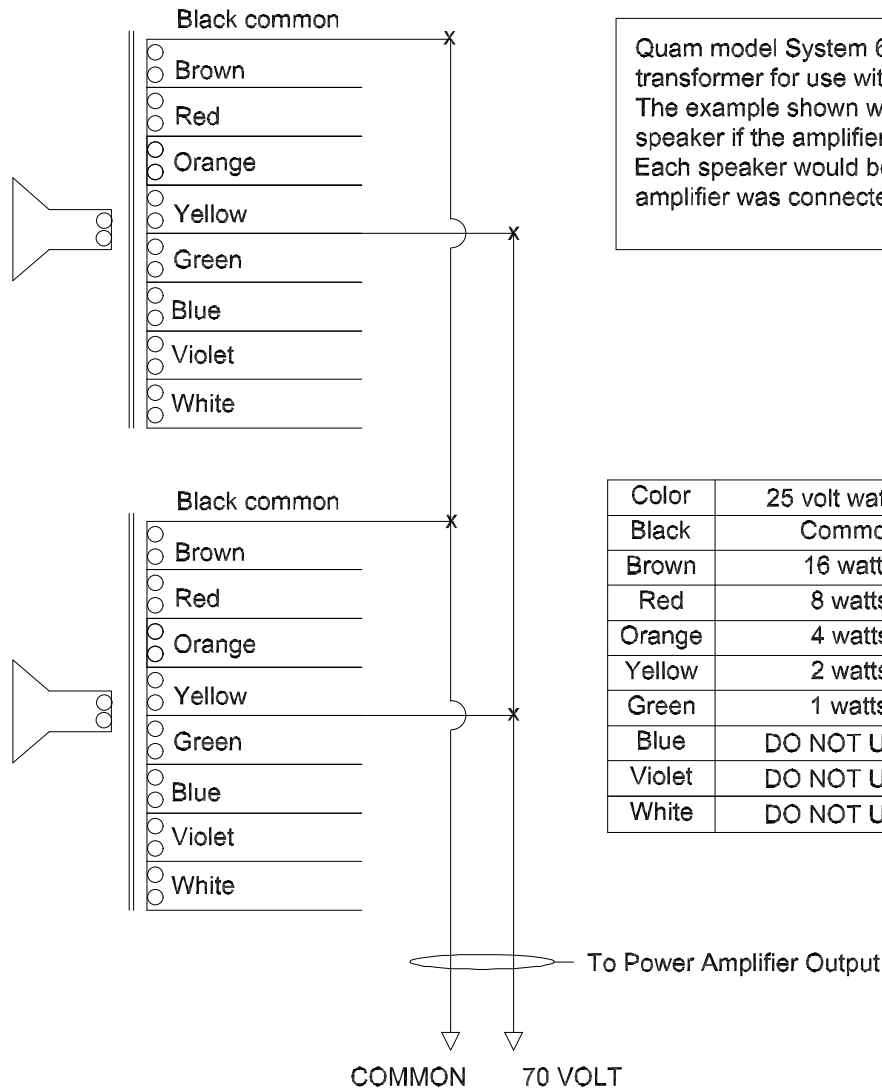




Quam

SYSTEM 6VP, QH16T H16/RVP, H16/SVP

0180 - WIRING DIAGRAM



Quam model System 6VP transformer is a universal transformer for use with either 25 or 70 volt lines. The example shown would supply 1 watt to each speaker if the amplifier was connected for 25 volt. Each speaker would be supplied with 8 watts if the amplifier was connected for 70 volts.

Color	25 volt wattage	70 volt wattage
Black	Common	Common
Brown	16 watts	DO NOT USE
Red	8 watts	DO NOT USE
Orange	4 watts	DO NOT USE
Yellow	2 watts	16 watts
Green	1 watts	8 watts
Blue	DO NOT USE	4 watts
Violet	DO NOT USE	2 watts
White	DO NOT USE	1 watts

*Note: Each unused transformer tap must be insulated from each other and from ground.
Transformer color codes shown are for Quam System 6VP transformer.

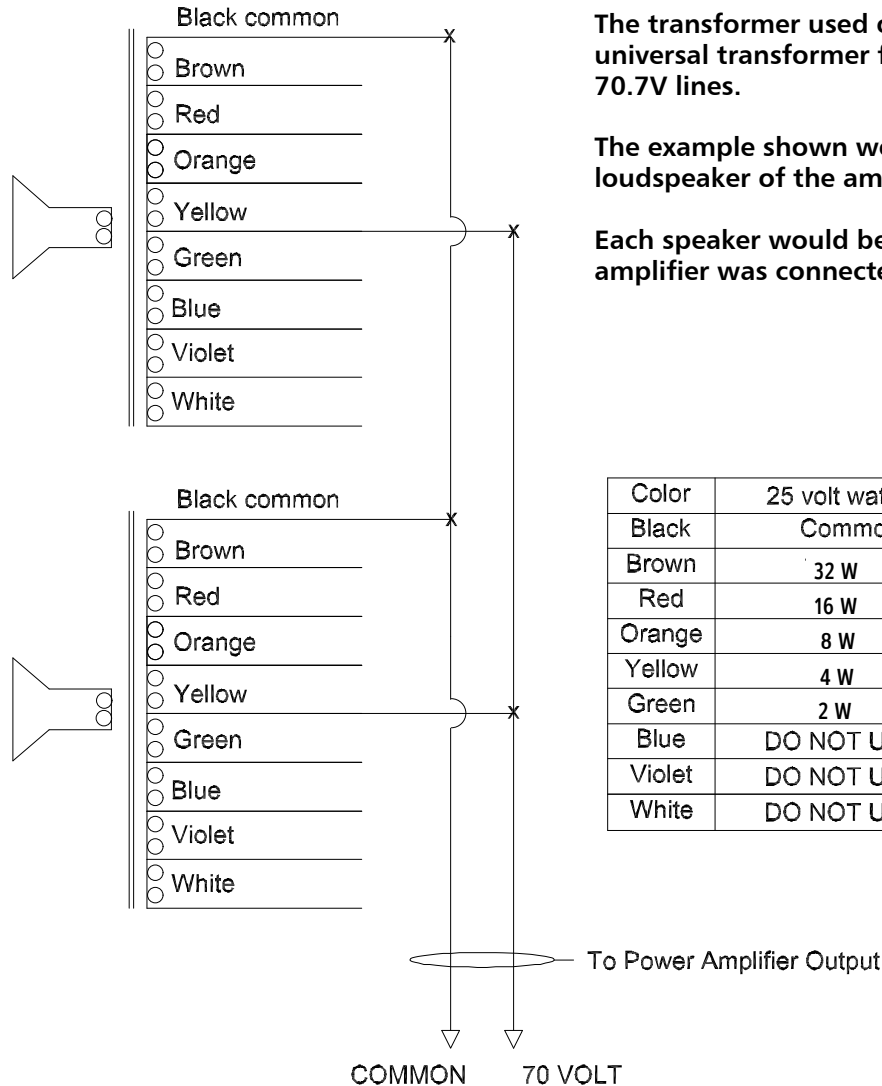
01
LOUDSPEAKER ASSEMBLIES

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0180 - WIRING DIAGRAM



The transformer used on the ABOVE MODEL is a universal transformer for use with either 25 or 70.7V lines.

The example shown would supply 4W to the loudspeaker of the amplifier for 25V.

Each speaker would be supplied with 32W if the amplifier was connected for 70.7V.

Color	25 volt wattage	70 volt wattage
Black	Common	Common
Brown	32 W	DO NOT USE
Red	16 W	DO NOT USE
Orange	8 W	DO NOT USE
Yellow	4 W	32 W
Green	2 W	16 W
Blue	DO NOT USE	8 W
Violet	DO NOT USE	4 W
White	DO NOT USE	2 W

*Note: Each unused transformer tap must be insulated from each other and from ground.

Transformer color codes and values are shown for the H32 transformer only

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Quam

REPLACEMENT HARDWARE For QUAM Products

0190 - REPLACEMENT HARDWARE KITS

All Replacement Hardware kits are available for immediate shipment!

They're so affordable, an assortment belongs on every truck– as essential as a screwdriver!
Save time, save money– stock up today!

Kit# 72	8X Beam Clamps
Kit# 86	24X #8-32 x 1" Truss Head Phillips drive screw, zinc
Kit# 87	24X #8-32 x 1" Truss Head Phillips drive screws, zinc, with heads painted white
Kit# 88	24X #8 S/M x 1" Truss Head Phillips drive screws, zinc, with heads painted white
Kit# 89	24X #8 S/M x 1" Truss Head Phillips drive screws, zinc with black painted heads -and- black plastic washers
Kit# 90	24X #8-32 x 2" Truss Head Phillips screw, zinc
Kit# 91	24X #8-32 x 2" Truss Head Phillips drive screws, zinc, with heads painted white
Kit# 92	24X #8 Flanged speed nuts
Kit# 93	24X #8 S/M U-Style, clip-on nut
Kit# 94	24X #6-32 x 1" Button head, "pin-in-torx" screws, stainless with one (1) security driver bit
Kit# 95	24X #8-32 x 1" Button head "pin-in-torx" screws, stainless, heads painted white with one (1) security driver bit
Kit# 96	24X #6-32 x 3/4" Oval head slotted screws, Zinc
Kit# 98	6X Black attenuator knob, 1/4" "D" shaft
Kit# 99	6X White attenuator knob, 1/4" "D" shaft
Kit# 100	2X Call-In Button Switch, Round, Stainless Steel
Kit#104	3X Conduit entry plate for QH16T
Kit# 106	2X Adjustable "knuckle-mount" for FM4, FM7, black finish
Kit# 109	6X White VC Knobs
Kit# 110	6X Black VC Knobs
Kit# 111	1X Replacement Gooseneck Microphone for DTS-1

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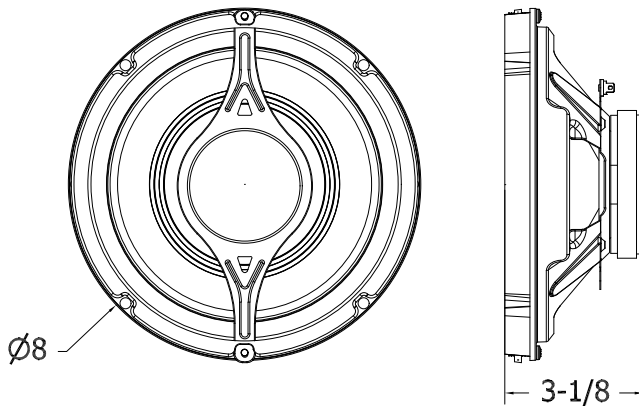
REPLACEMENT HARDWARE



Quam

8C10CO 8" CoAxial Loudspeaker

0201 - LOUDSPEAKER, INDIVIDUAL, COAXIAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C10CO is an 8" frame, 8 Ohm loudspeaker and coaxial mount piezoelectric ceramic HF. Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502 - Transformers

0301 - Baffles, Round

OR

0302 - Baffles, Square

0401.1 - Flush Mounted Back Boxes, Round

OR

0401.2 - Flush Mounted Back Boxes, Square

0402 - Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" Frame
Average Sensitivity	95 dB SPL, 1W / 1M
Power Rating	20W RMS, EIA 426A Standard
Calculated Output	108 dB SPL, 20W / 1M
Frequency Response	60 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half Space
Mounting	4x 1/4" Holes Spaced 90° Apart on 7-5/8" Circle
Audio Connection	0.205" Spade Lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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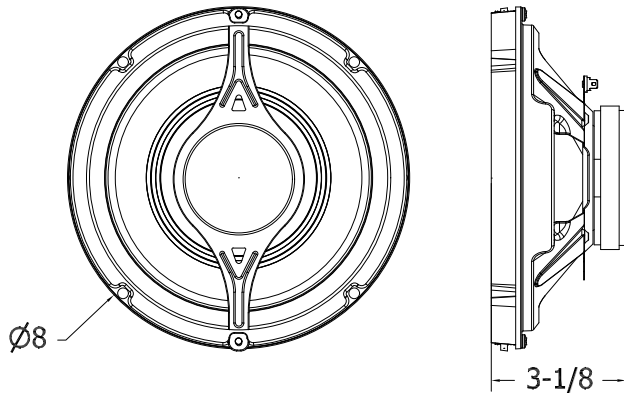
T8C10CO_09MY08



Quam

8C10FECO 8" CoAxial Loudspeaker With Foam Surround

0201 - LOUDSPEAKER, INDIVIDUAL, COAXIAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C10FECO is an 8" frame, 8 Ohm loudspeaker with foam surround and coaxial mount piezoelectric ceramic HF.

Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502 - Transformers

0301 - Baffles, Round
OR

0302 - Baffles, Square

0401.1 - Flush Mounted Back Boxes, Round
OR

0401.2 - Flush Mounted Back Boxes, Square

0402 - Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" Frame
Average Sensitivity	95 dB SPL, 1W / 1M
Power Rating	20W RMS, EIA 426A Standard
Calculated Output	108 dB SPL, 20W / 1M
Frequency Response	40 Hz - 20 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half Space
Mounting	4x 1/4" Holes Spaced 90° Apart on 7-5/8" Circle
Audio Connection	0.205" Spade Lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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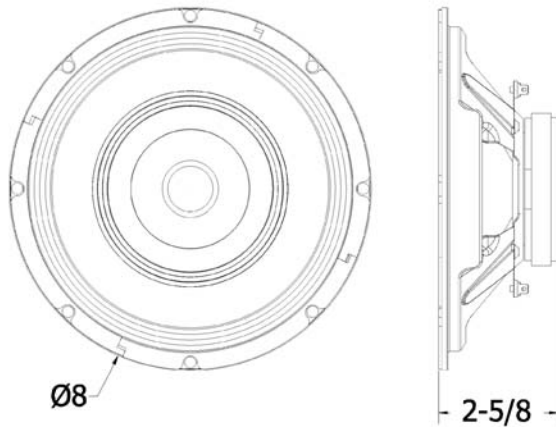
T8C10FECO_09MY08



Quam

8C10DVPAX 8" Dual Voice Coil Loudspeaker

0202 - LOUDSPEAKER, INDIVIDUAL, DUAL VOICE COIL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C10DVPAX is an 8" frame loudspeaker with concentric mount hard fiber HF cone and two discrete 8 Ohm voice coils. Finish: Black baked epoxy hybrid.

INTENDED USE

Replacement loudspeaker that can reproduce sound from two independent audio signals or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502- Transformers, may require two depending on use

0301- Baffles, Round -or-

0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-

0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Power Rating	15W RMS, EIA 426A Standard
Calculated Output	105 dB SPL, 20W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 12 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Mounting	8x 1/4" holes spaced 45° apart on 7-5/8" circle
Audio Connections	0.205" Spade lug, two locations

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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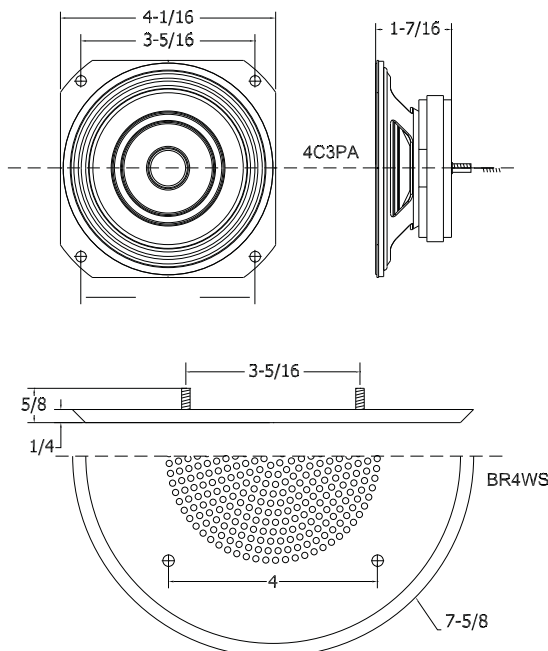


Quam

4C3PA
0203, Loudspeaker, Individual

BR4WS
0301.1, Screw Mount Baffle

0203 - LOUDSPEAKER, INDIVIDUAL



GENERAL DESCRIPTION

The Quam 4C3PA is a 4" square frame, 8 Ohm loudspeaker with cloth surround. Finish: Black baked hybrid epoxy.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker assembly; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Section 0301.1 - Baffle, Stud Mount, BR4WS (shown above)

Section 0401.1 - Back Box, Flush Mounted, Round, All

Section 0402 - Loudspeaker Mounting Device, SSB-4

Section 0502 - Transformer, All

AUDIO SPECIFICATIONS

Speaker Size	4" Frame
Average Sensitivity	96 dB SPL, 1W / 1M
Power Rating	10W RMS, EIA 426A Std.
Calculated Output	107 dB SPL, 10W / 1M
Frequency Response	80 Hz - 10 kHz EIA 426A Std.
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half Space
Mounting	4x 1/4" Holes Spaced 90° Apart on 4-11/16" Circle
Audio Connection	0.205" Spade Lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

02

LOUDSPEAKERS, INDIVIDUAL

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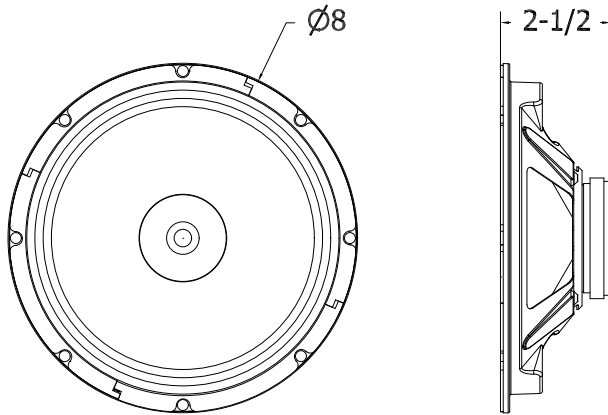




Quam

8C5PAX 8" Dual Cone Loudspeaker

0203 - LOUDSPEAKER, INDIVIDUAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C5PAX is an 8" frame, 8 Ohm loudspeaker with concentric mount hard fiber HF cone. Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502- Transformers

0301- Baffles, Round -or-

0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-

0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92 dB SPL, 1W/ 1M
Power Rating	12W RMS, EIA 426A Standard
Calculated Output	103dB SPL, 10W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8oz. Nominal
Frequency Response Nominal	65Hz - 17 kHz EIA 462A Standard
Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Mounting	8x 1/4" Holes spaced 45° apart On 7-5/8" circle
Audio Connection	0.205" Spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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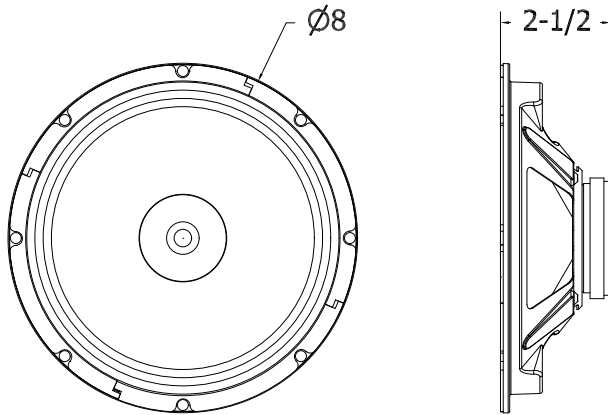


Quam

8C5Z45

8" Dual Cone Loudspeaker

0203 - PUBLIC ADDRESS LOUDSPEAKER, INDIVIDUAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C5Z45 is an 8" frame, 45 Ohm loudspeaker with concentric mount hard fiber HF cone. Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502- Transformers

0301- Baffles, Round -or-

0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-

0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	92dB SPL, 1W/ 1M*
Power Rating	12W RMS, EIA 426A Standard
Calculated Output	103dB SPL, 12W/ 1M
Magnet Type, Weight	BeFe Ceramic, 4.8oz. Nominal
Frequency Response	70Hz - 15 kHz EIA 462A Standard
Nominal	100° Included Angle,
Coverage Angle	-6 dB / 2 kHz, Half space
Mounting	8x 1/4" Holes spaced 45° apart On 7-5/8" circle
Audio Connection	0.205" Spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

* 1W= 6.708V across 45Ω.

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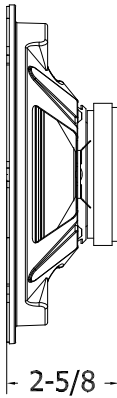
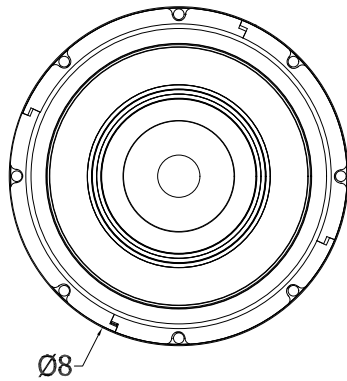
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Quam

8C10FEPAX 8" Dual Cone Loudspeaker

0203 - LOUDSPEAKER, INDIVIDUAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C10FEPAX is an 8" frame, 8 Ohm loudspeaker with urethane foam surround and concentric mount hard fiber HF cone.

Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502 - Transformers

0301 - Baffles, Round
OR

0302 - Baffles, Square

0401.1 - Flush Mounted Back Boxes, Round
OR

0401.2 - Flush Mounted Back Boxes, Square

0402 - Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" Frame
Average Sensitivity	95dB SPL, 1W / 1M
Power Rating	20W RMS, EIA 426A Standard
Calculated Output	108dB SPL, 20W / 1M
Frequency Response	40 Hz - 18 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle, -6 dB / 2 kHz, Half Space
Mounting	4x 3/8" Holes Spaced 90° Apart on 7-5/8" Circle
Audio Connection	0.205" Spade Lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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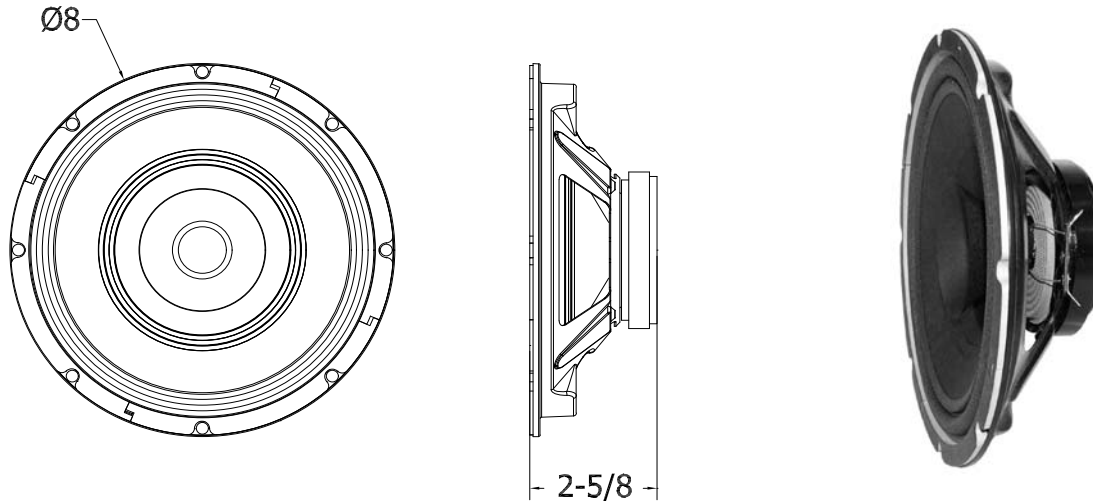




Quam

8C10PAX 8" Dual Cone Loudspeaker

0203 - LOUDSPEAKER, INDIVIDUAL



GENERAL DESCRIPTION

The Quam 8C10PAX is an 8" frame, 8 Ohm loudspeaker with concentric mount hard fiber HF cone.
Finish: Black baked epoxy hybrid.

INTENDED USE

Wide frequency response replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502- Transformers

0301- Baffles, Round -or-

0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-

0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	95 dB SPL, 1W/ 1M
Power Rating	20W RMS, EIA 426A Standard
Calculated Output	108dB SPL, 10W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response, Nominal	60Hz - 17 kHz EIA 462A Standard
Coverage Angle	100° Included Angle,
Mounting	-6 dB / 2 kHz, Half space
	8x 1/4" holes spaced 45° apart on 7-5/8" circle
Audio Connection	0.205" Spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

02

LOUDSPEAKERS, INDIVIDUAL

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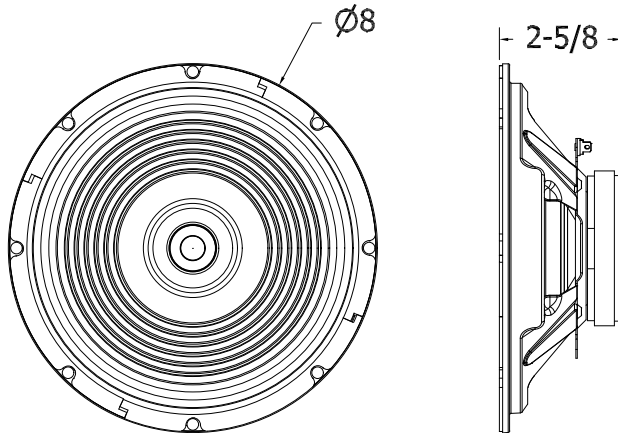
T8C10PAX_09MY08



8C10PAOT

8" Moisture Resistant Loudspeaker

0204 - MOISTURE RESISTANT LOUDSPEAKERS, INDIVIDUAL



02

LOUDSPEAKERS, INDIVIDUAL

GENERAL DESCRIPTION

The Quam 8C10PAOT is an 8" frame, 8 Ohm loudspeaker with phenolic resin impregnated cone.
Finish: Black baked epoxy hybrid.

INTENDED USE

Moisture resistant, replacement loudspeaker or combined with recommended Quam components to form a complete loudspeaker system; outdoor or indoor environment.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to Section 0104.6 - Customer Specified Assembly or individual components listed below:

0502- Transformers

0301- Baffles, Round -or-

0302- Baffles, Square

0401.1- Flush Mounted Back Boxes, Round -or-

0401.2 Flush Mounted Back Boxes, Square

0402- Loudspeaker Mounting Devices

AUDIO SPECIFICATIONS

Speaker Size:	8" frame
Average Sensitivity:	94 dB SPL, 1W/ 1M
Power Rating:	20W RMS, EIA 426A Standard
Calculated Output:	105dB SPL, 10W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response:	80Hz - 8 kHz EIA 462A Standard
Nominal :	100° Included Angle,
Coverage Angle:	-6 dB / 2 kHz, Half space
Mounting	8x 1/4" holes spaced 45° apart on 7-5/8" circle
Audio Connection:	0.205" Spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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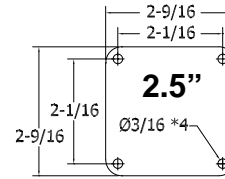
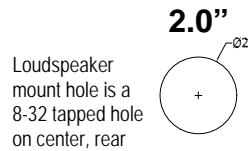
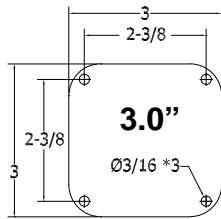




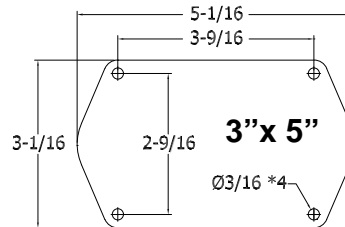
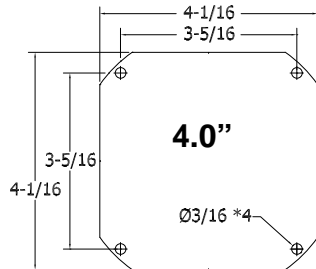
Quam

GENERAL PURPOSE REPLACEMENT Loudspeakers

0204 - GENERAL PURPOSE LOUDSPEAKERS, INDIVIDUAL



25C25Z80T Shown



GENERAL DESCRIPTION

QUAM General Purpose and Replacement loudspeakers conform to Industry Standard mounting centers; weather-resistant speaker cones are phenolic resin impregnated.

Finish: Black baked epoxy hybrid.

	Model Number	Frequency Response (Hz)	Power (W) 1	Impedance(s) Available (Ω) 2	Cone Finish Options	Magnet Material / Weight (oz)	Depth (in)
2.0" Round	2A05Z8	300 Hz- 6 kHz	1W	8 Only	None	Alnico, 0.52	0.940
2.5" Square	25A07Zxx	150 Hz-12 kHz	2W	8 / 45	None	Alnico, 0.52	1.090
2.5" Square	25C25ZxxOT	200 Hz- 6 kHz	4W	8 / 45	Weather-Resistant	Ceramic 2.35	1.040
3.0" Square	30A05Zxx	150 Hz-12 kHz	2W	8 / 45	None	Alnico, 0.52	1.242
3.0" Square	30C25Z8	150 Hz-14 kHz	2W	8 Only	None	Ceramic 2.35	1.190
3.0" Square	30C25ZxxOT	150 Hz-10 kHz	4W	8 / 45	Weather-Resistant	Ceramic 2.35	1.190
3x5" Oval	35A05Z8	130 Hz-14 kHz	1W	8 Only	None	Alnico 0.52	1.520
4.0" Square	4A1Zxx	200 Hz-12 kHz	3W	8 / 45	None	Alnico 0.52	1.465
4.0" Square	4C3Z8OT	130 Hz- 9 kHz	10W	8 Only	Weather-Resistant	Ceramic 4.8	1.450
4.0" Square	4C5Z8	120 Hz-15 kHz	10W	8 Only	None	Ceramic 4.8	1.450

1- Loudspeaker Power Rating per EIA 426A

2- xx on Model number requires desired impedance designator: Z8 for 8 Ω, Z45 for 45 Ω

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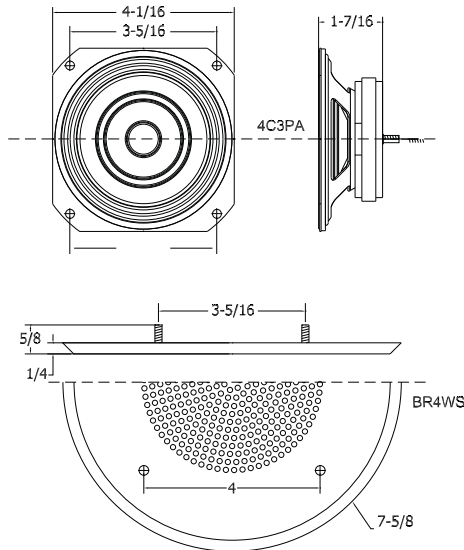


Quam

BR4WS
0301.1, Stud Mount Baffle

4C3PA
0203, Loudspeaker, Individual

0301 - BAFFLES, ROUND



03 BAFFLES

GENERAL DESCRIPTION

The Quam BR4WS is a 22 gage steel, round loudspeaker baffle with 4 welded 8-32 x 1" studs on the back surface. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment. For use with 4C3PA Quam loudspeaker shown above, and related components

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Section 0401.1 - Back Box, Flush Mounted, Round, All
Section 0402 - Loudspeaker Mounting Device, SSB-4
Section 0502 - Transformer, All

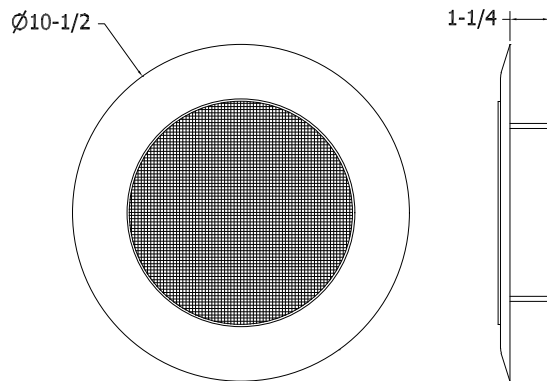
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0301 - BAFFLE, ROUND



03 BAFFLES

GENERAL DESCRIPTION

The Quam BR8-2WS is a 16 gage steel, round speaker baffle with 24 gage mesh grill insert and 4 welded 8-32 x 1-1/4" studs on the back. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0104.4 - Speaker, Transformer
- 0201 - Coaxial Loudspeakers, Individual
- 0202 - Dual Voice Coil Loudspeakers, Individual
- 0203 - Public Address Loudspeakers, Individual
(Except 4C3PAB, 4C10PAB, 12C10PAXB)
- 0401 - Flush Mounted Back Boxes
- 0402 - Loudspeaker Mounting Devices
(SSB-6 Only)

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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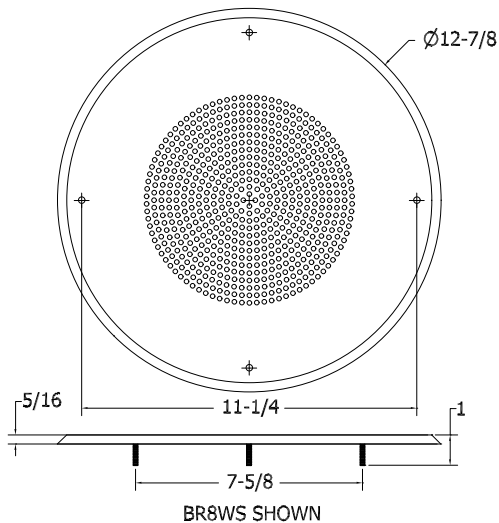
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BR8WS
0301.1 Stud Mount
BR8W
0301.2 Screw Mount

0301 - BAFFLE, ROUND



BR8WS Shown

03 BAFFLES

GENERAL DESCRIPTION

The Quam BR8WS is a 22 gage steel, round speaker baffle with 4 welded 8-32 x 1" studs on the back surface. Finish: White baked epoxy hybrid.

The Quam BR8W is a 22 gauge steel, round speaker baffle with 4 supplied "white-head" 8-32 x 1" Phillips truss head mounting screws through the baffle. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0104.4 - Speaker, Transformer
- 0201 - Coaxial Loudspeakers, Individual
- 0202 - Dual Voice Coil Loudspeakers, Individual
- 0203 - Public Address Loudspeakers, Individual (Except 4C3PAB, 4C10PAB, 12C10PAXB)
- 0401 - Flush Mounted Back Boxes
- 0402 - Loudspeaker Mounting Devices (Except SSB-4, SSB-6, SSB-9)

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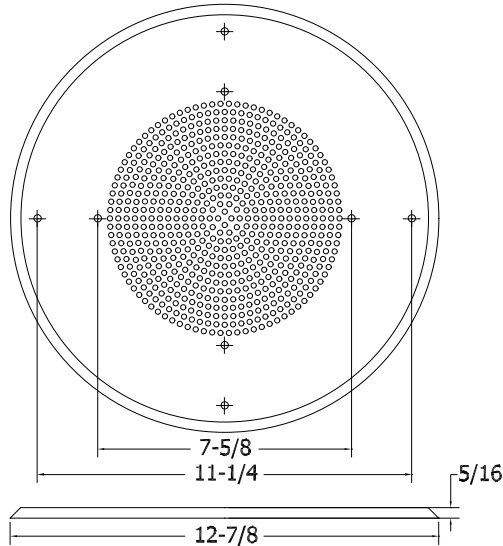


Quam

BR8A

0301.2 Screw Mount

0301 - BAFFLE, ROUND



03 BAFFLES

GENERAL DESCRIPTION

The Quam BR8W is a 22 gauge aluminum, round speaker baffle with 4 supplied zinc-plated 8-32 x 1" Phillips truss head mounting screws through the baffle.

Finish: Brushed swirl aluminum.

INTENDED USE

Indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0104.4 - Speaker, Transformer
- 0201 - Coaxial Loudspeakers, Individual
- 0202 - Dual Voice Coil Loudspeakers, Individual
- 0203 - Public Address Loudspeakers, Individual
(Except 4C3PAB, 4C10PAB, 12C10PAXB)
- 0401 - Flush Mounted Back Boxes
- 0402 - Loudspeaker Mounting Devices
(Except SSB-4, SSB-6, SSB-9)

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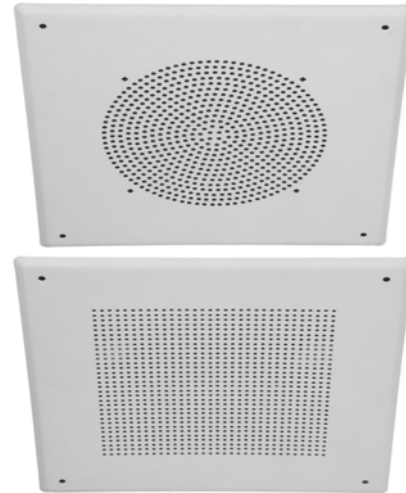
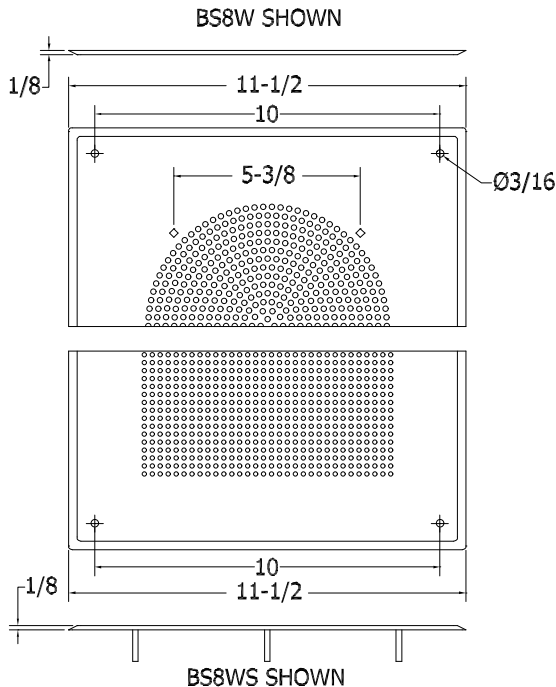




Quam

BS8WS
0302.1 Stud Mount
BS8W
0302.2 Screw Mount

0302 - BAFFLE, SQUARE



03 BAFFLES

GENERAL DESCRIPTION

The Quam BS8WS is a 22 gage steel, square speaker baffle with 4 welded 8-32 x 1" studs on the back surface. Finish: White baked epoxy hybrid.

The Quam BS8W is a 22 gauge steel, square speaker baffle with 4 supplied "white-head" 8-32 x 1" Phillips truss head mounting screws through the baffle. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0104.4 - Speaker, Transformer
- 0201 - Coaxial Loudspeakers, Individual
- 0202 - Dual Voice Coil Loudspeakers, Individual
- 0203 - Public Address Loudspeakers, Individual (Except 4C3PAB, 4C10PAB, 12C10PAXB)
- 0401 - Flush Mounted Back Boxes
- 0402 - Loudspeaker Mounting Devices (Except SSB-4, SSB-6, SSB-9)

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Quam

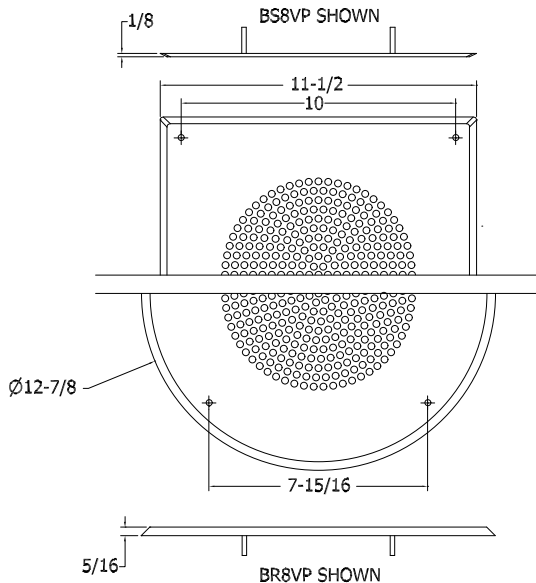
BR8VP

Vandal Resistant, Round Loudspeaker Baffle

BS8VP

Vandal Resistant, Square Loudspeaker Baffle

0603 - VANDAL RESISTANT COMPONENTS



GENERAL DESCRIPTION

The Quam BR8VP is a 16 gage steel, round vandal-resistant loudspeaker baffle.

The Quam BS8VP is a 16 gage steel, square vandal-resistant loudspeaker baffle.

Both versions are supplied with a steel interwoven security screen to be mounted between the baffle and loudspeaker, 4 welded 8-32 x 1" studs on the back surface for speaker mounting and 4 8-32 x 1" 'pin-in-torx' mounting screws and tool.

Finish: White baked epoxy hybrid.

INTENDED USE

Outdoor or indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- | | |
|---------|--|
| 0104.4- | Speaker, Transformer Assemblies |
| 0201- | Coaxial Loudspeakers, Individual |
| 0202- | Dual Voice Coil Loudspeakers, Individual |
| 0203- | Public Address Loudspeakers, Individual
(Except 4C3PAB, 4C10PAB, 12C10PAXB) |
| 0401- | Flush Mounted Back Boxes |
| 0402- | Loudspeaker Mounting Devices
(Except SSB-4, SSB-6, SSB-9) |

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

CORRECTION / DETENTION

06

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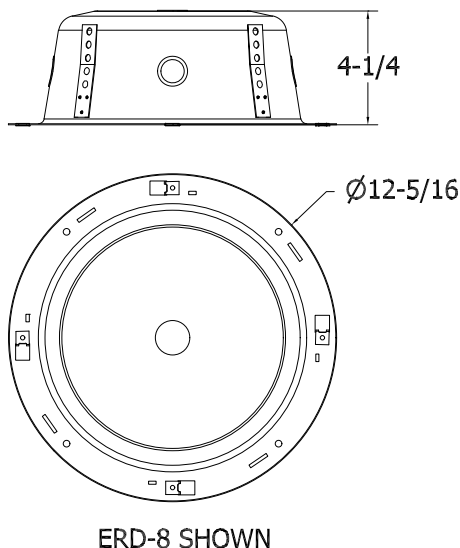
Quam



ERD-8 ERD8U

Back Box / Mounting Device
UL Listed

0401.1—FLUSH MOUNTED, ROUND



ERD8U Shown

GENERAL DESCRIPTION

The Quam ERD-8 or ERD8U is a UL Listed (UUMW), round, steel loudspeaker back box. A circular, molded expanded polystyrene damping pad is fitted to the inside top of the enclosure.

Finish: White baked epoxy hybrid.

INTENDED USE

Use with recommended additional Quam components to complete a loudspeaker assembly used in an indoor environment.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0402 - Loudspeaker Mounting Devices, SSB-2

0401.2 - Speaker, Transformer, Baffle & Volume Control
OR

0104.3 - Speaker, Transformer, Baffle & Universal Knob Control

MECHANICAL SPECIFICATIONS

Height	4-1/2"
Diameter (Flange Max)	12-5/16"
Bottom Diameter	9-3/4"
Top Diameter	8-1/2"
Internal Displacement	275 cu. in.

ATTACHMENT POINTS

	TOP	SIDE
ERD-8	--	4x welded
ERD8U	--	2x snap-in

ELECTRICAL ACCESS

	TOP	SIDE
ERD-8	1x	4x - 90° apart
ERD8U	1x	4x - 90° apart

All devices connect with twist-tabs to support bridge.

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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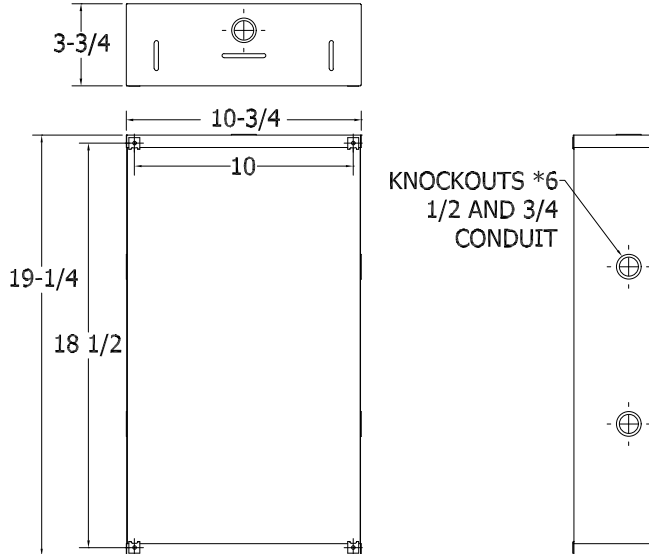


Quam

ES8-CK

Flush Mount Box for C5/BU/CK1/x Loudspeaker

0401.2 FLUSH MOUNTED, SQUARE



GENERAL DESCRIPTION

The Quam ES8-CK is a steel flush mount box for the Quam C5/BU/CK 1/x clock baffle, supplied separately. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment, in either horizontal or vertical alignment.

REQUIRED ADDITIONAL QUAM COMPONENT

Section 0102- C5/BU/CK1/x Clock Baffle Loudspeaker

MECHANICAL SPECIFICATIONS

Height (Vertical orientation)	19-1/4"
Width (Vertical orientation)	10-3/4"
Depth	3-3/4"
Clock Baffle Attachment	4x #8 x 32 Tinnerman clips
Electrical Access	6x 1/2" / 3/4" scored combination knockouts

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

04 BACK BOXES / MOUNTING DEVICES

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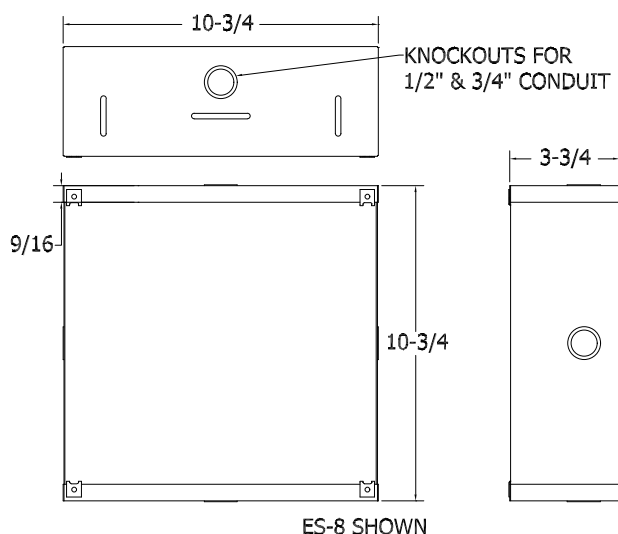




ES-8
ES8-6

Back Box / Mounting Device

0401.2 FLUSH MOUNTED, SQUARE



ES-8 Shown

GENERAL DESCRIPTION:

The Quam ES-8 –or- ES8-6 is a 22 gauge square steel loudspeaker back box with acoustic foam liner.
Finish: White baked epoxy hybrid.

INTENDED USE:

In-wall installation, used in an outdoor and indoor environment and used with recommended additional Quam components to complete a loudspeaker assembly.

SYSTEM COMPONENTS:

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS:

0104.4- Speaker, Transformer
0302- Baffle, Square -or-
0603- Vandal Resistant Components- BS8VP

MECHANICAL SPECIFICATIONS:

Depth	
ES-8	3-3/4"
ES8-6	6"
Internal Displacement:	
ES-8	430 Cu. In.
ES8-6	690 Cu. In.
Baffle Attachment Points	4x #8 Tinnerman clips
Electrical Access	4x 1/2" / 3/4" conduit knock-outs on sides

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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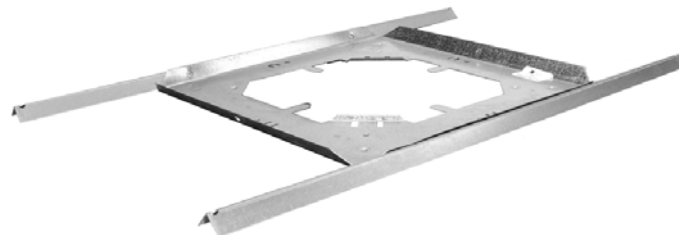
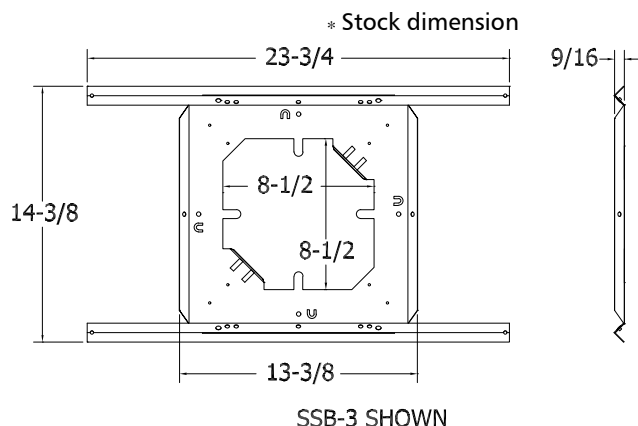




SSB-2, SSB-3, SSB-4 SSB-6, SSB-7, SSB-9 SSC-1

Loudspeaker Mounting Devices

0402 - LOUDSPEAKER MOUNTING DEVICES



SSB-3 SHOWN

GENERAL DESCRIPTION

The Quam SSB-(2, 3, 4, 6, 7, 9) is a rust resistant steel, load bearing support for a loudspeaker assembly.

The Quam SSC-1 is a pair of rust resistant steel, load bearing mounting channels.

INTENDED USE

SSB-(2, 3, 4, 6, 9): Parallel to floor plane in a suspended ceiling structure; maximum span of 24" in one dimension; indoor environment. Refer to schedule on reverse for frame compatibility.

SSB-7: 8" frame loudspeaker, new gypsum board construction; indoor environment.

SSC-1: Gypsum board or drop tile ceiling applications; indoor environment.

* 23-3/4" Stock dimension, lengths up to 48" available on SSB-2, 3, 4, 6, 9 and SSC-1 as a special order, please contact Factory for delivery and pricing

RECOMMENDED ADDITIONAL QUAM COMPONENTS

Refer to schedule on reverse for frame compatibility

SYSTEM COMPONENTS

N/A

MECHANICAL DIMENSIONS

Refer to reverse side

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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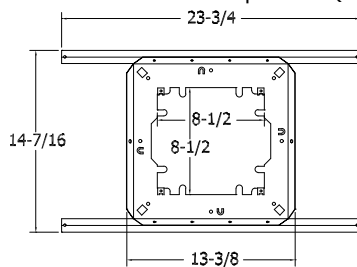


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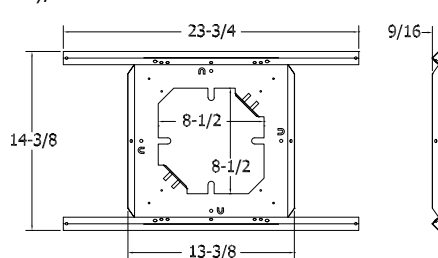
0402 - LOUDSPEAKER MOUNTING DEVICES

	SSB-2	SSB-3	SSB-4	SSB-6	SSB-7	SSB-9	SSC-1
BAFFLES							
BR4W			✓				✓
BR4WS			✓				✓
BR8-2WS				✓			
BR8A	✓	✓			✓		✓
BR8VP	✓	✓			✓		
BR8W	✓	✓			✓		✓
BR8WC	✓	✓			✓		✓
BR8WP	✓	✓			✓		✓
BR8WS	✓	✓			✓		✓
BS8VP	✓	✓					
BS8W	✓	✓					
BS8WS	✓	✓					
TBR8W		✓					
TBR8WS		✓					
QMount™						✓	

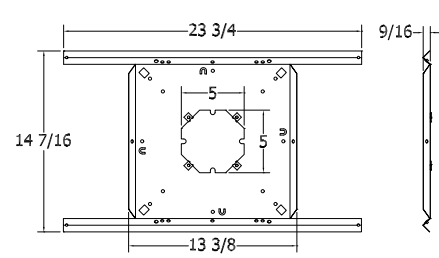
NOTE: With the exception of QMount™ (SSB-9), all SSB assemblies can use ERD-8 or ERDU back boxes



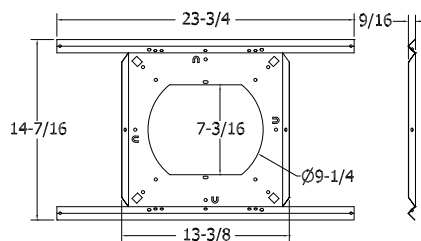
SSB-2 SHOWN



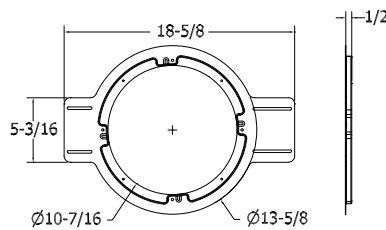
SSB-3 SHOWN



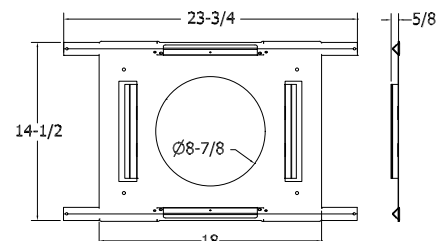
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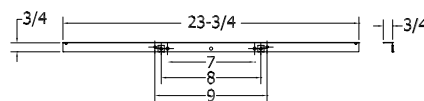
SSB-6 SHOWN



SSB-7 SHOWN



SSB-9 SHOWN



SSC-1 SHOWN

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Quam

SSB-I 900

Mounting Device with
18.0 CID Electrical Junction Box

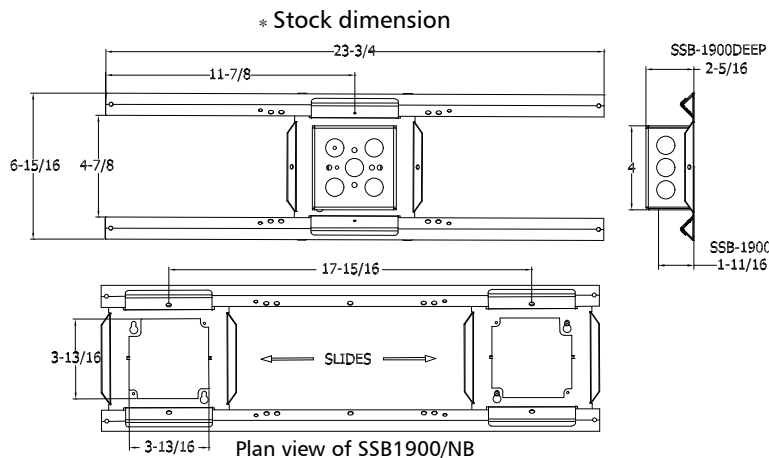
SSB-I 900DEEP

Mounting Device with
30.3 CID Electrical Junction Box

SSB-I 900/NB

Mounting Device,
Without Electrical Junction Box

0402 - MOUNTING DEVICES



GENERAL DESCRIPTION

The Quam SSB-1900 is a rust resistant steel, adjustable load bearing support with a medium depth, 18.0 CID steel '1900' electrical junction box.

The Quam SSB-1900DEEP is a rust resistant steel, adjustable load bearing support with a 30.3 CID steel '1900' electrical junction box.

The Quam SSB-1900/NB is a rust resistant steel, adjustable load bearing support *without* electrical junction box.

INTENDED USE

Parallel to floor plane in a suspended ceiling structure; maximum span of 24" in one dimension; indoor environment.

WARNING! NOT TO BE USED FOR FANS OR AIR-MOVERS OF ANY TYPE.

When used with devices that rotate, such as dome video cameras, the SSB-1900 must be secured to the ceiling grid; a secondary, independent tie-off must be used for the device itself.

* 23-3/4" Stock dimension, lengths up to 48" available as a special order, please contact Factory for delivery and pricing

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JUNCTION BOX ACCESS

All 4 vertical sides	2x 1/2" k/o conduit 1x 1/2"/ 3/4" eccentric k/o conduit
Top Horizontal Surface	3 x 1/2" k/o conduit (SSB-1900) 2 x 1/2" k/o conduit (SSB-1900DEEP) 2x 1/2"/ 3/4" eccentric k/o conduit

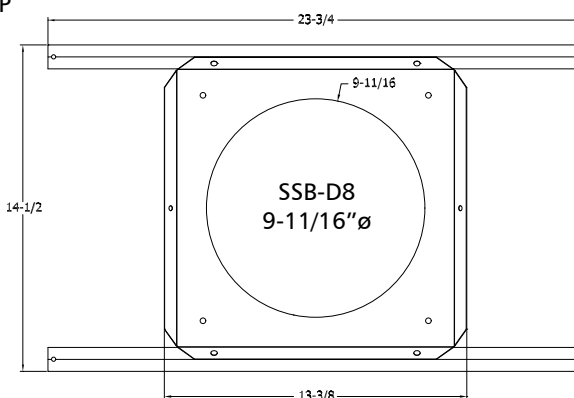
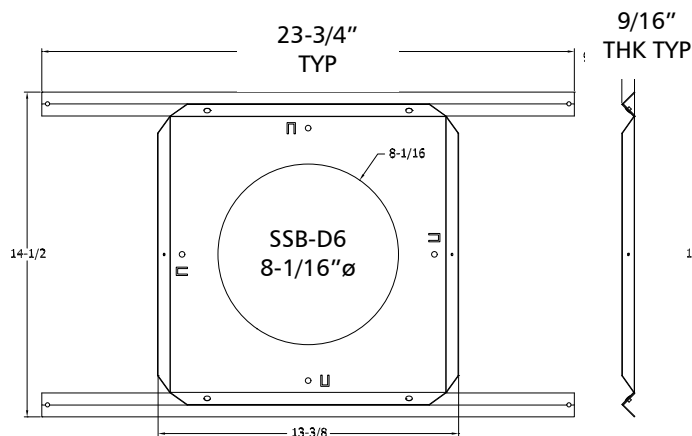
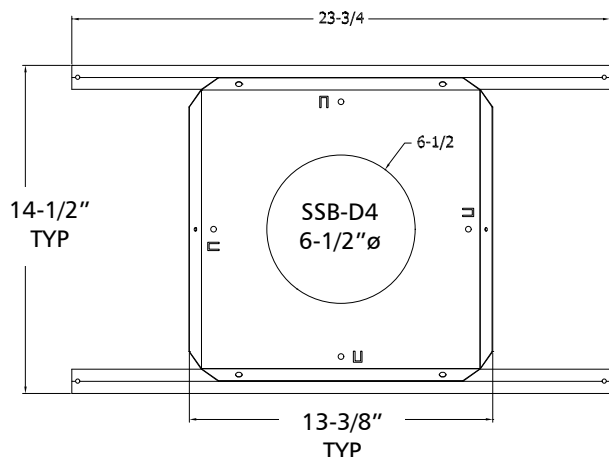
MECHANICAL ATTACHMENT

Bottom Horizontal	2x 8-32 formed threads to attach 2-gang Surface adapter plate if required
Tie-offs	4x Total, 1 each at end of bridge rail 2x Terminal plate

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com



0402 - LOUDSPEAKER MOUNTING DEVICES



GENERAL DESCRIPTION

The Quam SSB-xD is a rust resistant steel, load bearing support for most loudspeakers using a "dog-leg" or cam type mounting mechanism designed for suspended ceilings.

INTENDED USE

Parallel to floor plane in a suspended ceiling structure; maximum span of 24" in one dimension; indoor environment.

Models shown correspond to nominal driver size; viz:
SSB-D4 is used with a nominal 4" (100mm) driver.

RECOMMENDED ADDITIONAL QUAM COMPONENTS

For acoustical isolation and loudspeaker protection when loudspeaker assembly does not have an integral back-can.

SSB-D4, SSB-D6	QUAM ERD8U, 3-1/2" D
SSB-D8	QUAM ES8-6, 6" D

IMPORTANT NOTE!

Contractors are urged to verify enclosure diameter and height of loudspeaker above loudspeaker support deck prior to ordering support or rear enclosure, if required.

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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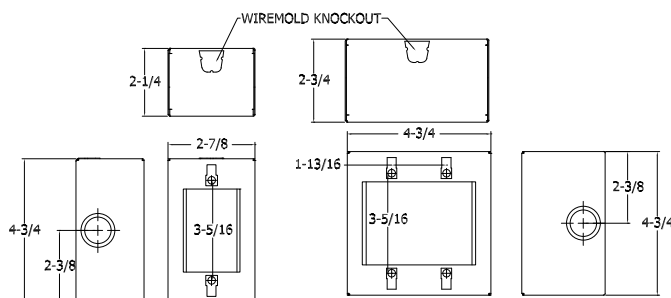




SE4W Single Gang Box

SE4W/2 Double Gang Box

0403- SURFACE MOUNTING DEVICES



GENERAL DESCRIPTION

The Quam SE4W/x is a 22 gage steel, open back surface mount enclosure fitted with #6 cage nuts, one Wire-mold® knock-out and two combination 1/2"/3/4" knock-outs.

Finish: White baked epoxy hybrid

Formats:

Single gang- SE4W
Double gang- SE4W/2

INTENDED USE

Indoor environment

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0501- Attenuators
 - SE4W- QC4-x, QC10x, QC101x
 - SE4W/2- QC100x
- 0501.1- Attenuators, UL Listed
 - SE4W- QC10x, QC101x
 - SE4W/2- QC100x
- 0503- Selectors, Switches
 - SE4W- PS6L, CIB3, CIB4
 - SE4W/2- PS6L/QC10, CIS10

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

04 BACK BOXES / MOUNTING DEVICES

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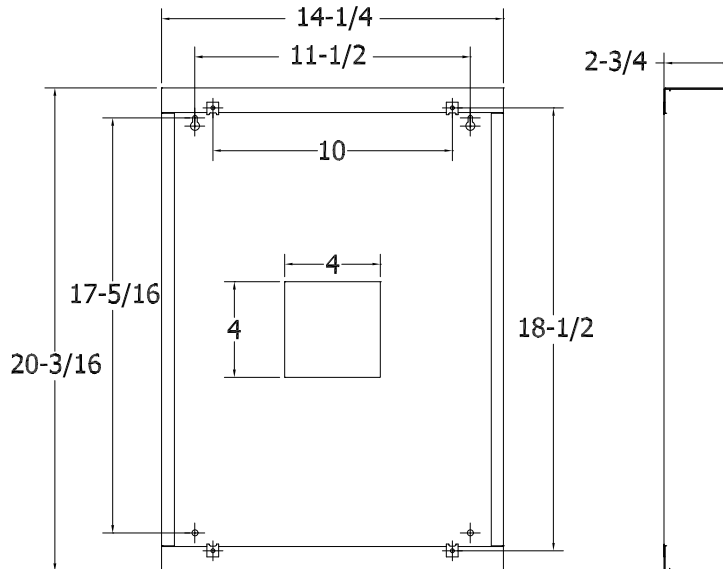


Quam

SE9W

Surface mount box for C5/BU/CK1/x Loudspeaker

0403- SURFACE MOUNT, SQUARE



GENERAL DESCRIPTION

The Quam SE9W is a steel surface mount box for the Quam C5/BU/CK 1/x clock baffle, supplied separately. Finish: White baked epoxy hybrid.

INTENDED USE

Indoor environment, in either horizontal or vertical alignment.

REQUIRED ADDITIONAL QUAM COMPONENT

Section 0102- C5/BU/CK1/x Clock Baffle Loudspeaker

MECHANICAL SPECIFICATIONS

Height (Vertical orientation)	20-3/16"
Width (Vertical orientation)	14-1/4"
Depth	2-3/4"
Clock Baffle Attachment	4x #8 x 32 Tinnerman clips
Mechanical Access to Surface	2x #10 Keyhole slots 2x #10 holes
Electrical Access	4" X 4", center of enclosure

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and

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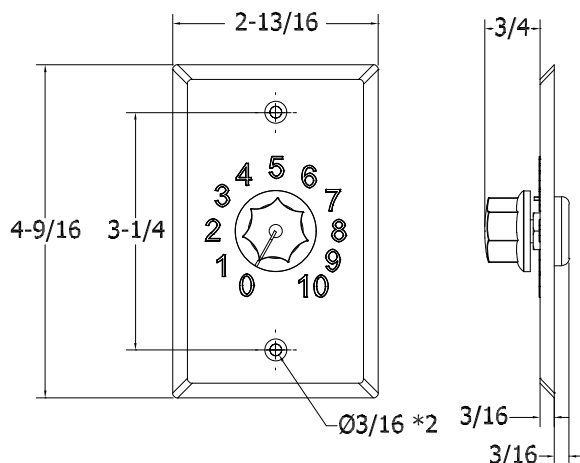
TSE9W_09NO03



QC4-50
Attenuator, Stepless, 4, 8, or 16Ω Circuit

QC4-5000
Attenuator, Stepless, 25 / 70.7V Circuit

0501 - ATTENUATORS



GENERAL DESCRIPTION

The Quam QC4- (xxxx) is a single gang, rotary, wirewound stepless attenuator with an OFF position.
Finish: Brushed stainless steel, embossed scale positions
Knob: Black with white indicator

INTENDED USE

QC4-50: Attenuates audio power to a loudspeaker with a nominal impedance between 4 -16Ω up to 4W load; indoor environment.

QC4-5000: Attenuates audio power to the primary (tap) side of a 25 / 70.7V: 8Ω transformer, up to 4W load; indoor environment.

SYSTEM COMPONENTS

-N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

QC4- 50:
Section 02- LOUDSPEAKERS, INDIVIDUAL

QC4-5000:
Section 01- LOUDSPEAKER ASSEMBLIES
Section 0601- Vandal Resistant Speaker Assemblies

Optional:
Section 0403- Surface Mounting Device
SE4W Single Gang Box
SE4W/2 Double Gang Box- for two devices

AUDIO SPECIFICATIONS

Power Rating	5W continuous
Attenuation	0dB – ∞, Stepless
QC4-50	0 - 50Ω
QC4-5000	0 – 5kΩ
Insertion Loss	1.0 dB

MECHANICAL SPECIFICATIONS

Mounting	Single gang electrical box, 2-1/8" Deep Mounting screws supplied
Audio Connection	6" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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Quam



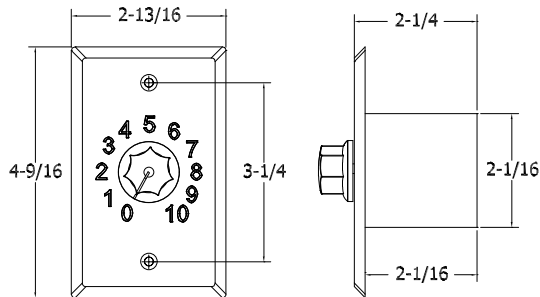
LISTED

QC10 Series

0501-Attenuators

0501.1- Attenuators, UL Listed

0501, 0501.1 - ATTENUATORS



QC10 Shown



GENERAL DESCRIPTION

The Quam QC10 (xx) is a single gang, continuous rotary, ten-step audio level attenuator with an OFF position. Except where noted, all variants are UL Listed 813.

Finish: QC10 - Stainless steel, embossed position
 QC10 Classic - Stainless steel, debossed, paint filled legends
 QC10P - Stainless steel, embossed position (No position on scale) (No UL Listing)
 QC10RM - 2" x 2" dial scale, white on black
 QC10W - Hybrid white epoxy plate, white knob

Knob (all variants, except QC10W): Black with white indicator

Knob (QC10W): White, molded indicator

INTENDED USE

QC10, QC10 Classic, QC10RM: Attenuates audio power to any number of loudspeakers up to 20W load. For use with 25V or 70.7V distributed audio systems; indoor environment.

QC10P: (No UL Listing) Attenuates audio level output to any number of loudspeakers up to 20W load. For use with 25V or 70.7V distributed audio systems; indoor environment. When internal 24VDC relay is activated, attenuator function is bypassed.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0403 - Surface Mounting Devices
 SE4W Single Gang Box

AUDIO SPECIFICATIONS

Power Rating	20W continuous
Attenuation	Position 10, Full signal
(Ref: 25V, 70.7V line)	Positions 9-3, -3 dB each
	Positions 2-1, -6 dB each
	Position 0, -36 dB
Insertion Loss	< 0.5 dB

MECHANICAL SPECIFICATIONS

Mounting	QC10, QC10 Classic, QC10W: Single gang electrical box, 2-1/8" Deep QC10P: 3-1/2" Deep QC10RM: 2RU rack panel or greater, 1/8" thick maximum
Relay Actuation	24VDC, 0.015A (QC10P only)
Audio Connection	10" Long Color-Coded Tinned wires, Pre-cut

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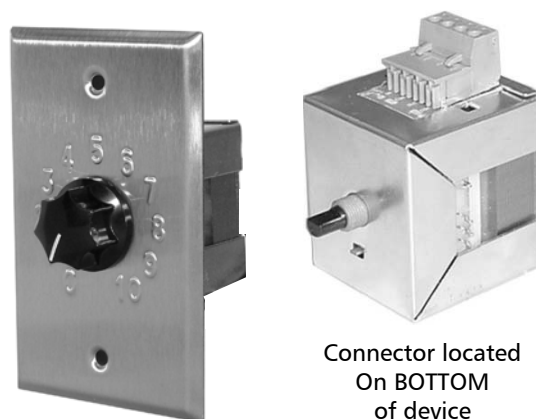
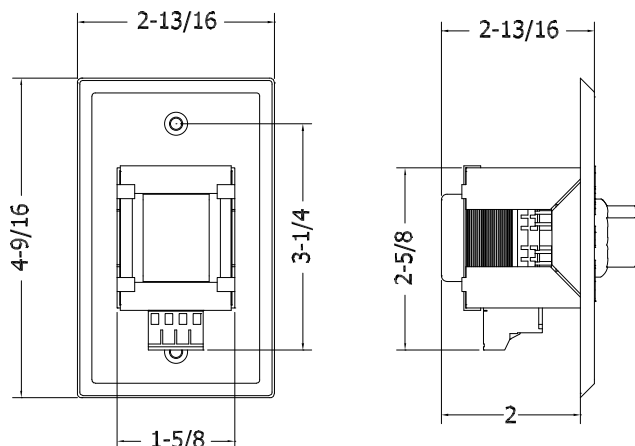
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TQC10SERIES_11MR17

0501 - ATTENUATORS



GENERAL DESCRIPTION

The Quam QC20 is a single gang, continuous rotary, ten-step audio level attenuator with an OFF position.

Faceplate Finish: Brushed stainless steel, embossed positions

Knob Black with white indicator

INTENDED USE

Attenuates audio power to any number of loudspeakers up to 20W load. For use with 25V or 70.7V distributed audio systems; indoor environment.

Program Material: Signal tones, voice and music

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0403 - Surface Mounting Devices
SE4W Single Gang Box

AUDIO SPECIFICATIONS

Power Rating	20W continuous
Attenuation (Ref: 25V,70.7V line)	Position 10, Full signal Positions 9-3, -3 dB per step Positions 2-1, -6 dB per step Position 0, -36 dB
Insertion Loss	< 0.5 dB

MECHANICAL SPECIFICATIONS

Mounting	Single gang electrical box, 2-1/8" D
Audio Connection	4-pin terminal block

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TQC20_11MR16



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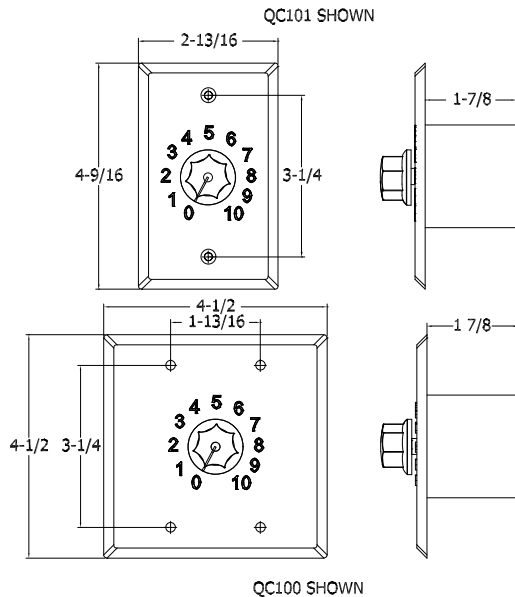
LISTED

QC 100 Series

0501-Attenuators

0501.1- Attenuators, UL Listed

0501, 0501.1 - ATTENUATORS



GENERAL DESCRIPTION

The Quam QC100xx is a dual gang, continuous rotary ten-step audio level attenuator with an OFF position.

The Quam QC101xx is a single gang, continuous rotary ten-step audio level attenuator with an OFF position.

Both single gang and dual gang formats are available in: -P (Priority relay), -RM (Rack Mount) and -W (White finish) formats described below.

All variants except the QC10xP are UL Listed 813.

Finish: QC10x, QC10xP- Brushed stainless steel, embossed position

QC10xRM- 2" x 2" dial scale, white on black

QC10xW- White baked hybrid epoxy finish, no position on scale

Knob: QC10x, QC10xP, QC10xRM- Black with white indicator

QC10xW- White molded indicator

INTENDED USE

QC10x, QC10xRM, QC10xW:

Attenuates audio power to any number of loudspeakers up to 100W load. For use with 25V or 70.7V distributed audio systems, indoor environment. UL Listed 813

QC10xP: (No UL Listing)

Attenuates audio power to any number of loudspeakers up to 100W load. For use with 25V or 70.7V distributed audio systems, indoor environment. When internal 24VDC relay is activated, attenuator function is bypassed.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0403- Surface Mounting Devices

SE4W/2 Double Gang Box- QC100 Only

SE4W Single Gang Box- QC101 Only

AUDIO SPECIFICATIONS

Power Rating	100W Continuous
Attenuation (Ref: 25V, 70.7V line)	Position 10, Full signal Positions 9-3, -3 dB each Positions 2-1, -6 dB each Position 0, -36 dB
Insertion Loss	< 0.5 dB

MECHANICAL SPECIFICATIONS

Mounting	QC100, QC100W, QC100P: Dual Gang electrical box, 2-3/4" deep QC101, QC101W: Single Gang electrical box, 2-3/4" deep QC101P: Single Gang electrical box, 3-1/2" deep QC10xRM: 2RU rack panel or greater, 1/8" thick maximum
Relay Actuation	24VDC, 0.15A (QC100P only)
Audio Connection	10" long, color-coded tinned wires,

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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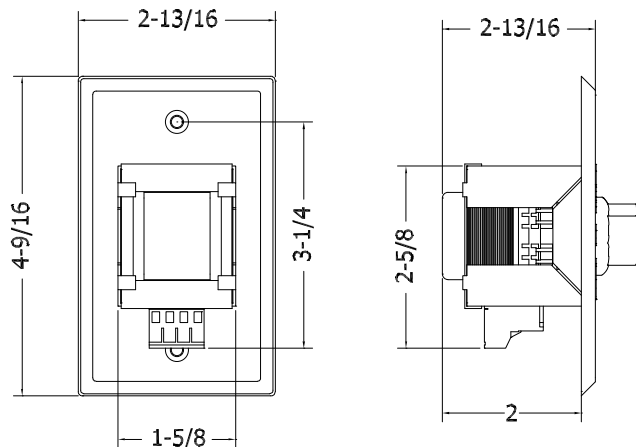
TQC100_101_11MR16



QC101M 1-Gang Ten-Step 100W Attenuator With Terminal Block Connector

QC101M/RM Rack Mount Ten-Step 100W Attenuator With Terminal Block Connector

0501 - ATTENUATORS



QC101M



QC101M/ RM

GENERAL DESCRIPTION

The Quam QC101M xx is a continuous rotary, ten-step audio level attenuator with an OFF position.

Faceplate Finish: Stainless steel, embossed position

Knob Black with white indicator

INTENDED USE

Attenuates audio power to any number of loudspeakers up to 100W load. For use with 25V or 70.7V distributed audio systems; indoor environment.

Program Material: Signal tones, voice and music

AVAILABLE MODELS:

QC101M: Attenuator with Single-gang brushed stainless steel faceplate and embossed legend 0-10
Black plastic knob with white index

QC101M/RM : Attenuator with pressure sensitive adhesive label; legend 0-10
Black plastic knob with white index

RECOMMENDED ADDITIONAL QUAM COMPONENT

QC101M Only: 0403 - Surface Mounting Devices
SE4W Single Gang Box

AUDIO SPECIFICATIONS

Power Rating	100W continuous
Attenuation	Position 10, Full signal
(Ref: 25V, 70.7V line)	Positions 9-1, -1.5 dB per step
	Position 0, -36dB
Insertion Loss	< 0.5 dB

MECHANICAL SPECIFICATIONS

Mounting	QC101M: Single gang electrical box, 2-1/8" Deep QC10M/RM: 2RU rack panel or greater, 1/8" thick maximum
Audio Connection	4-pin terminal block

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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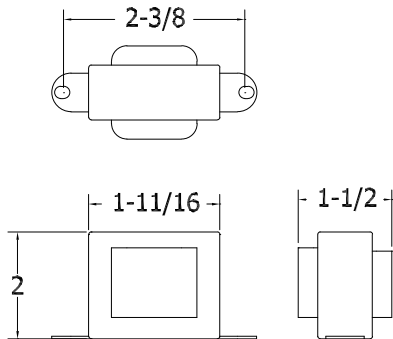


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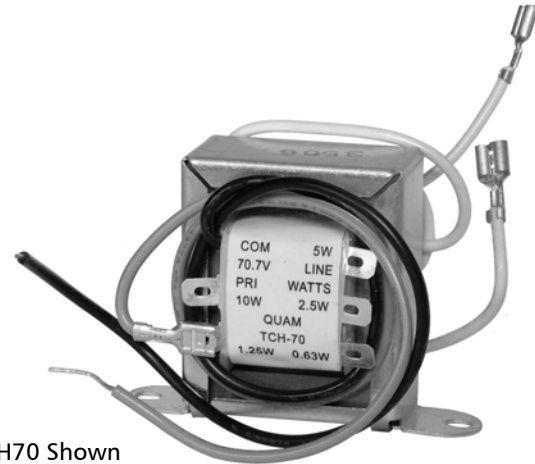


TBLU 25/70.7v, 5W
TBL25 25V, 4W
TBL70 70.7V, 4W
TCH70 70.7V, 10W,
 Low-Loss, Extended LF
Multi-Tap Line Transformers

0502- TRANSFORMERS



MAXIMUM DIMS SHOWN



TCH70 Shown

GENERAL DESCRIPTION

The Quam TBLU / TBL25 / TBL70 / TCH70 is a constant voltage line transformer with multi-tap outputs.

INTENDED USE

Indoor environment. Desired tap / common primary leads connected to the output of a constant voltage amplifier; secondary / common attached to a nominal 8 Ohm loudspeaker.

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0201- Coaxial Loudspeakers, Individual

0202- Dual Voice coil Loudspeakers, Individual
(Requires two transformers per loudspeaker)

0203- Public Address Loudspeakers, Individual
(Except 8C5Z45B- 45 Ohm)

NOTE:

Quam transformers use the following designators when used in Quam Factory Assemblies:

TBLU- /BU/
 TBL25- /B25/
 TBL70- /B70/
 TCH70- /H70/

AUDIO SPECIFICATIONS

Primary Volts	25V - TBL25 70.7V - TBL70, TCH70 25/70.7V - TBLU
Power Rating	4W - TBL25, TBL70 5W - TBLU 10W - TCH70
Primary Taps (-3dB steps)	5 - TBL25, TBL70, TCH70 5 per voltage - TBLU
Secondary Load	8 Ohm nominal, all variants
Frequency Response (Hz)	50Hz-20Khz - TCH70 100Hz-15kHz - TBLU, TBL25, TBL70
Insertion Loss	0.75 dB - TCH70 1.0 dB - TBLU, TBL25, TBL70

AUDIO CONNECTIONS

Primary Connection	<u>All except TCH70</u> Common: 7" pre-cut Taps: 7" color-coded, pre-cut <u>TCH70 Only</u> Common: 7" pre-cut Taps: 7" red wire with field-selectable, push-on connector
Secondary Connection	All variants: 7" lead with 0.205" female push on connector
Shipping Weight	10 oz- All models

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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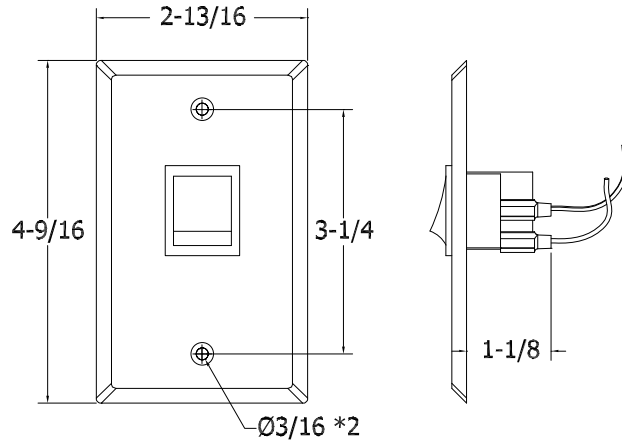
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Quam

CIB3 Switch, Call-In

0503- SELECTORS, SWITCHES, VOLUME CONTROL



GENERAL DESCRIPTION

The Quam CIB3 is a single-gang, call-in station with momentary, normally open, rocker actuator. The faceplate is 24 gage, brushed stainless steel with #6-32 hardware.

The legend "CALL" is hot-stamped on the switch.

INTENDED USE

Indoor environment.

RECOMMENDED QUAM COMPONENT

0403- SE4W Single Gang Surface Mount Enclosure

SWITCH CONNECTIONS

3" Stripped and tinned pigtails

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

ATTENUATORS / TRANSFORMERS

05

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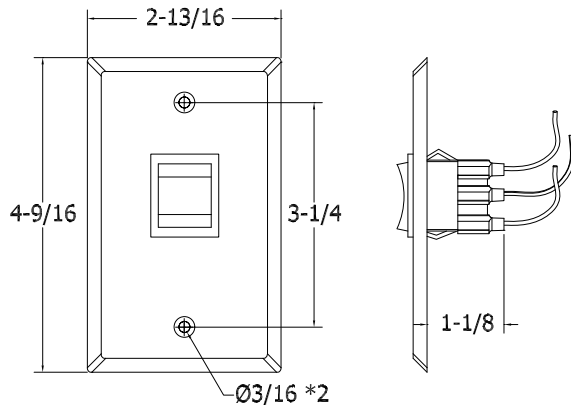
TCIB2_08AP18



Quam

CIB4 Switch, Call-In with Privacy Mode

0503- SELECTORS, SWITCHES, VOLUME CONTROL



GENERAL DESCRIPTION

The Quam CIB4 is a single-gang, rocker actuator switch call-in station with privacy function. The switch is normally open; call-in switch position is momentary, and privacy switch position is locked. The faceplate is 24 gage, brushed stainless steel with #6-32 hardware.

The legends "CALL" and "PRIV" are hot-stamped on the switch.

INTENDED USE

Indoor environment.

RECOMMENDED QUAM COMPONENT

0402- SE4W Single Gang Utility Box

SWITCH CONNECTIONS

3" Stripped and tinned pigtails

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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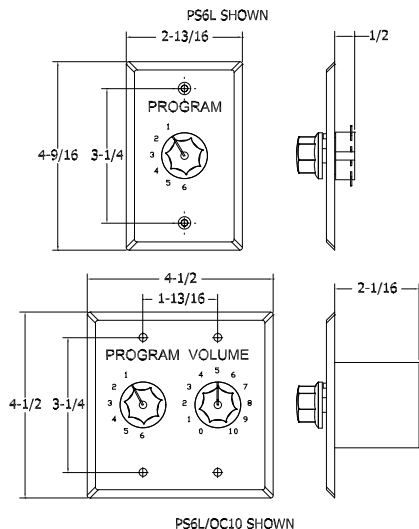
PS6L

1-Gang, Six-Position Program Selector

PS6L/QC10

2-Gang, Six-Position Program Selector with Volume Control

0503 - SELECTORS, SWITCHES, VOLUME CONTROL



GENERAL DESCRIPTION

The Quam PS6L is a single gang, six-position program selector that assigns the balanced output of a 25, 70.7 or 100V amplifier to one or more loudspeakers with a total load of 60W or less.

The Quam PS6L/QC10 is a 2- gang assembly with six-position program selector that assigns the balanced output of a 25, 70.7 or 100V amplifier to one or more loudspeakers with a total load of 20W or less and a continuous rotary ten-step audio level attenuator.

Finish: Brushed stainless faceplate, black printed legend, black knob, white indicator hash mark

INTENDED USE

Indoor environment
Program Material: Signal tones, voice and music.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0403- Surface Mounting Devices
SE4W Single Gang Box- PS6L
SE4W/2 Double Gang Box- PS6L/QC10

AUDIO SPECIFICATIONS

Power Rating	
PS6L	60W-RMS / 25, 70.7 or 100V
PS6L/QC10	20W-RMS / 25, 70.7 or 100V
Switching	
PS6L	Full stop at Pos. 1 and 6, detented
QC10	Continuous, detented
Attenuation	
QC10 only	Steps 1-2, -6 dB Steps 3-10, -3 dB Pos. 10, -36 dB total
Insertion Loss	< 0.5 dB

MECHANICAL SPECIFICATIONS

Mounting	
PS6L	Single Gang electrical box, 2-1/8" deep
PS6L/QC10	Dual Gang electrical box, 2-1/8" deep
Audio	Input, both devices- 5" pigtail leads
Connection	Output, both devices- 7" pigtail leads

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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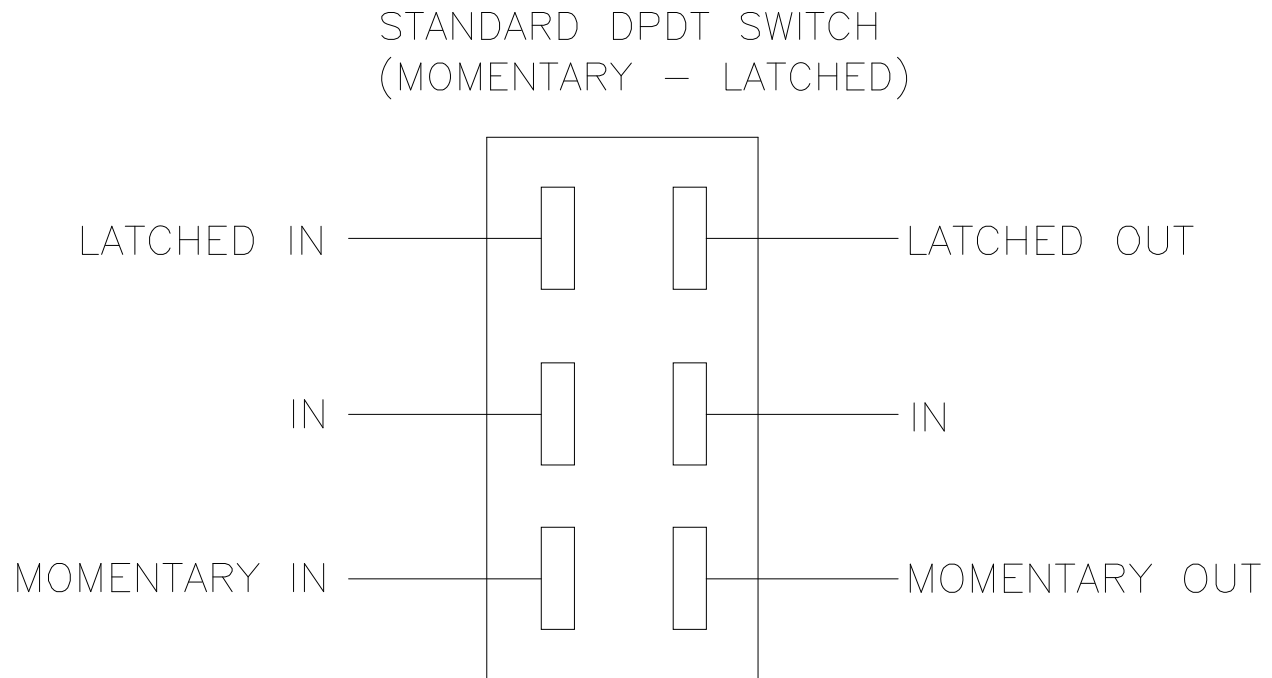
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Quam

CIB4 Switch, Call-In with Privacy Mode **WIRING DIAGRAM**

0580– SELECTORS, SWITCHES, VOLUME CONTROL



ATTENUATORS / TRANSFORMERS

05

INTENDED USE

Indoor environment.

RECOMMENDED QUAM COMPONENT

0402– SE4W Single Gang Utility Box

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TCIB4WD_08AP22



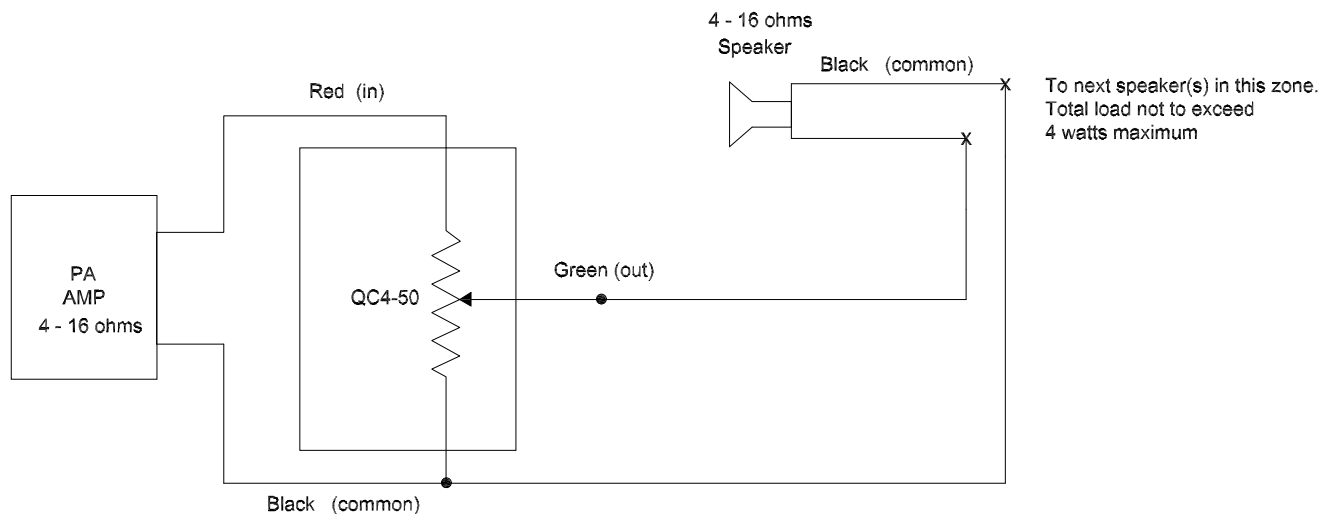
Quam

QC4-50

Attenuator, Stepless, 8-16 Ohm Circuit

WIRING DIAGRAM

0580 - ATTENUATORS



Note: Model QC4-50 volume controls are designed to work with a loudspeaker with a nominal impedance of 4-16 ohms. and must be limited to receive a maximum of 4 watts RMS.

05 ATTENUATORS

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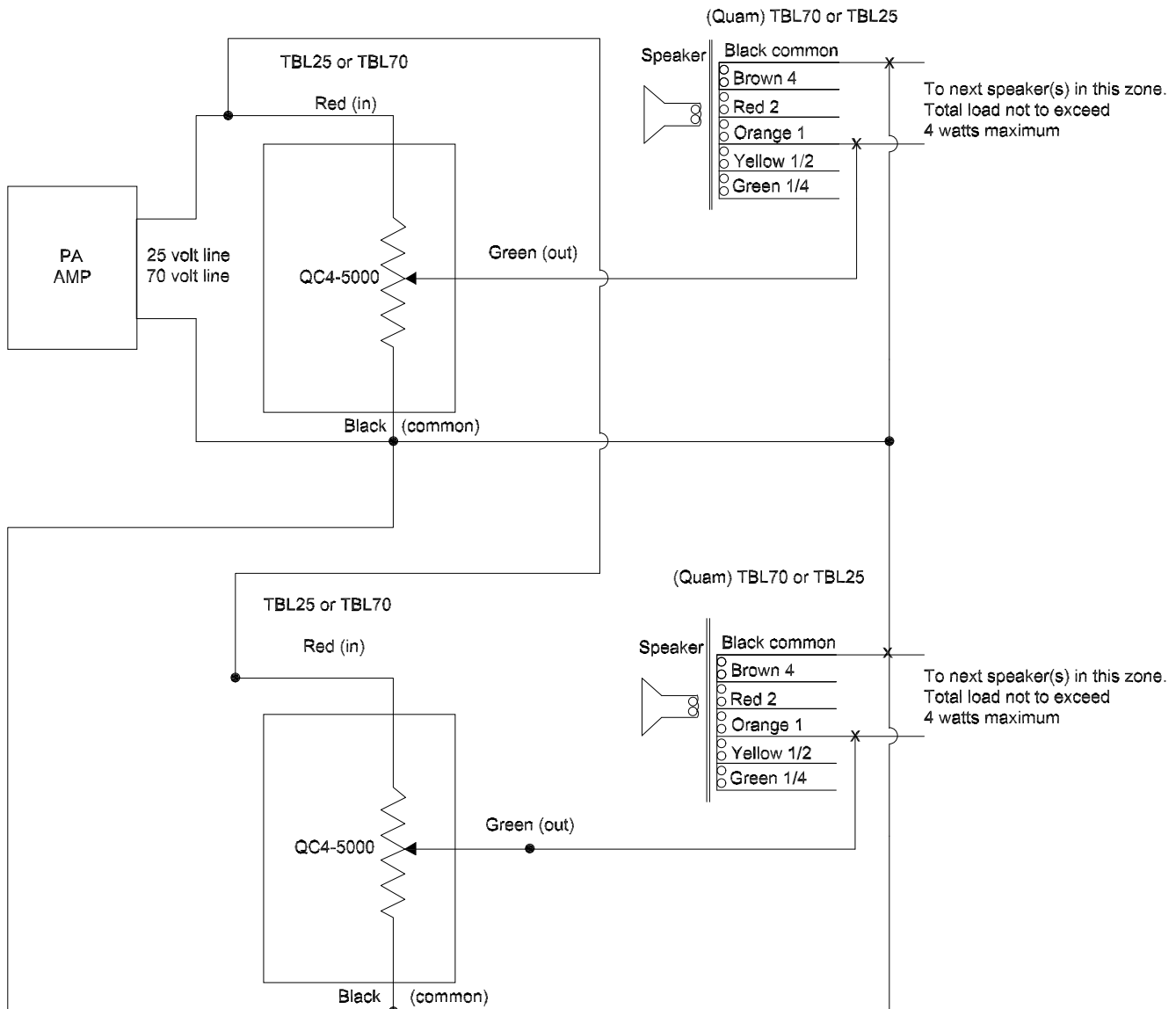
Quam

QC4-5000

Attenuator, Stepless, 25 / 70.7V Circuit

WIRING DIAGRAM

0580 - ATTENUATORS



Note: Color codes on transformer only apply to Quam TBL25 (25 volt) and TBL 70 (70 volt) transformers. Model QC4-5000 volume controls are designed to work with constant voltage line transformers and must be limited to receive a maximum of 4 watts RMS.

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05 ATTENUATORS



Quam



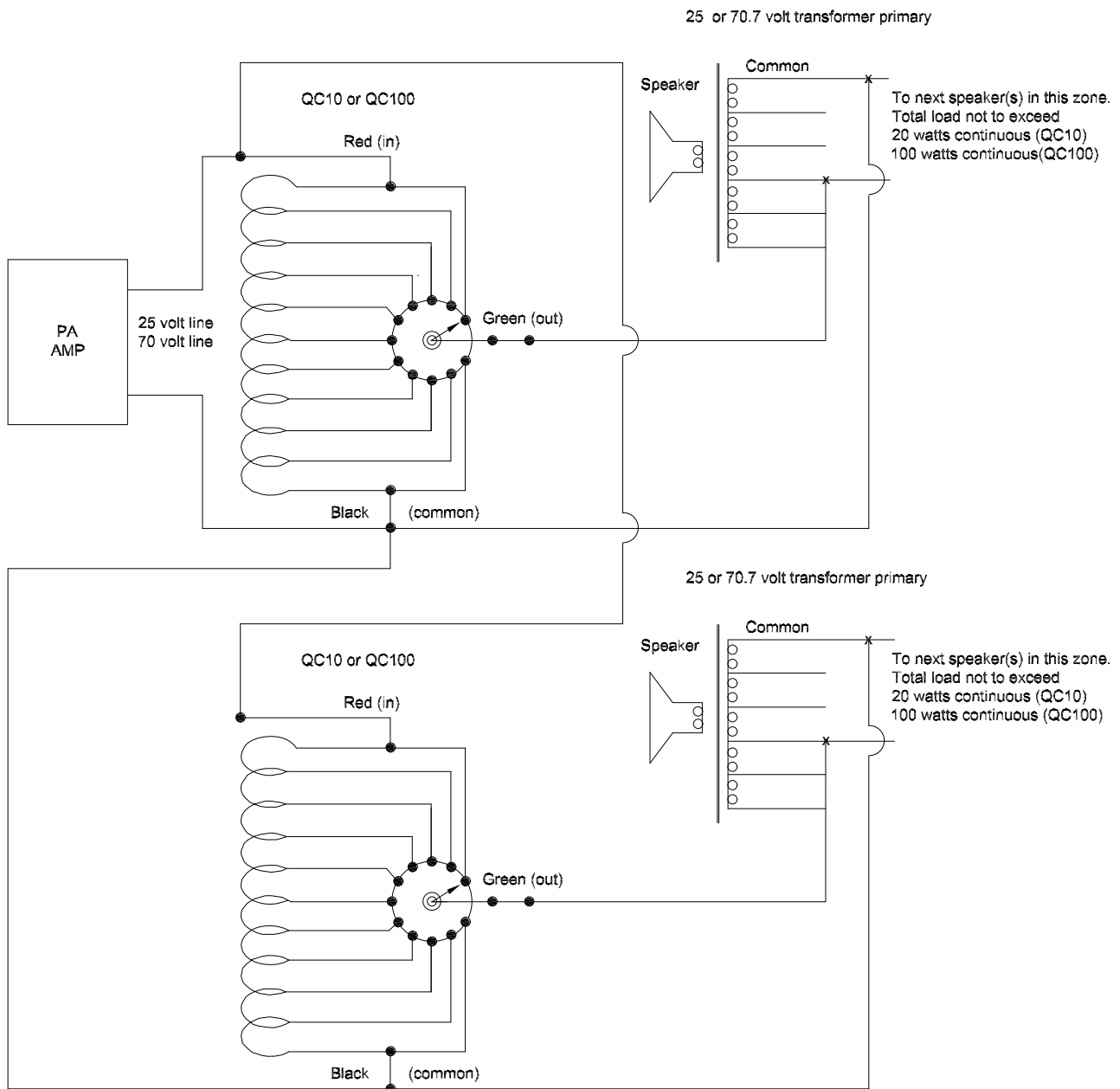
QC10 / QC100

0501-Attenuators

0501.1- Attenuators, UL Listed

WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



05 ATTENUATORS

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WQC10_QC100_07DE04

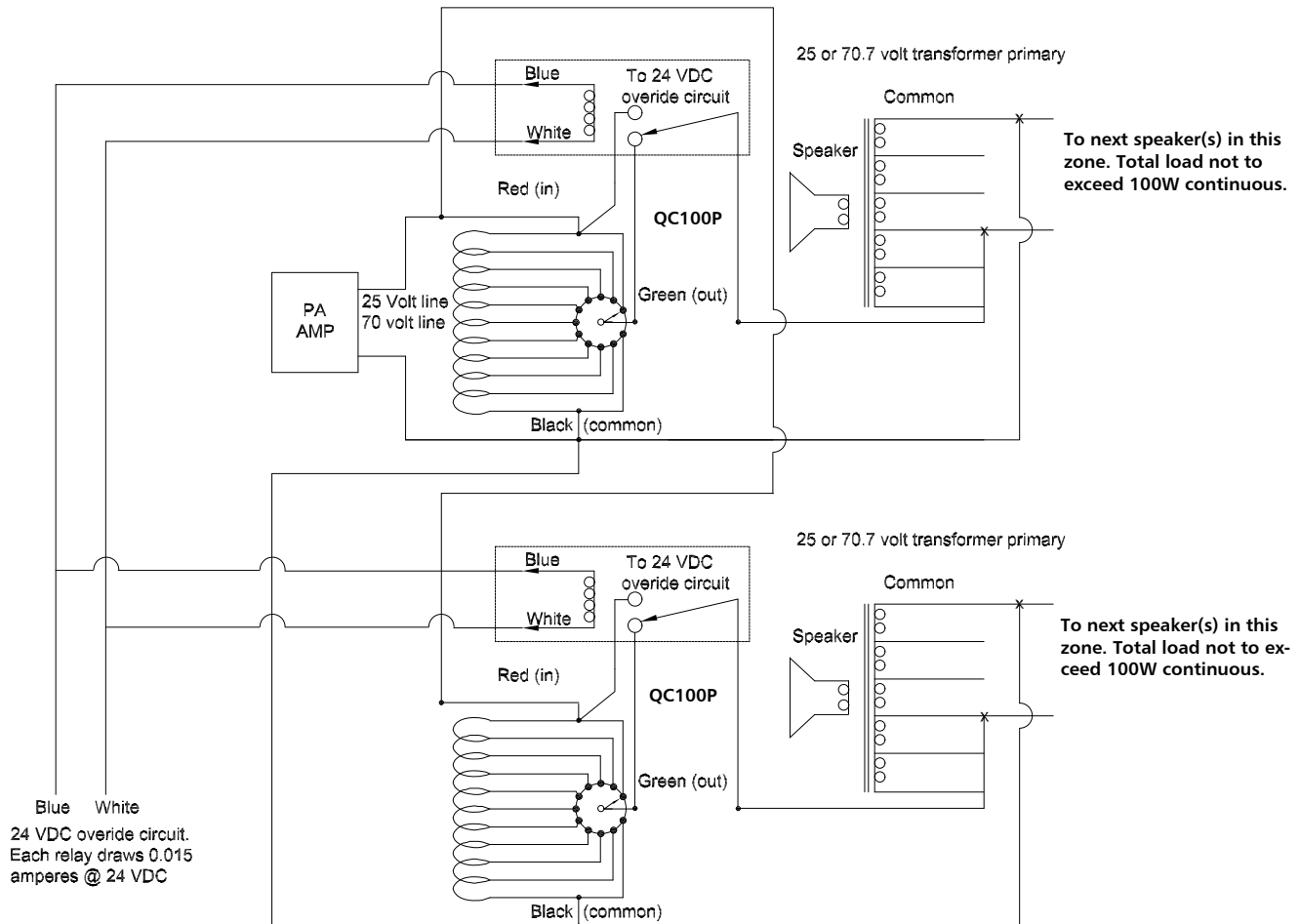


Quam

QC 100P
0501-Attenuators

WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



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WQC100P_08FE20

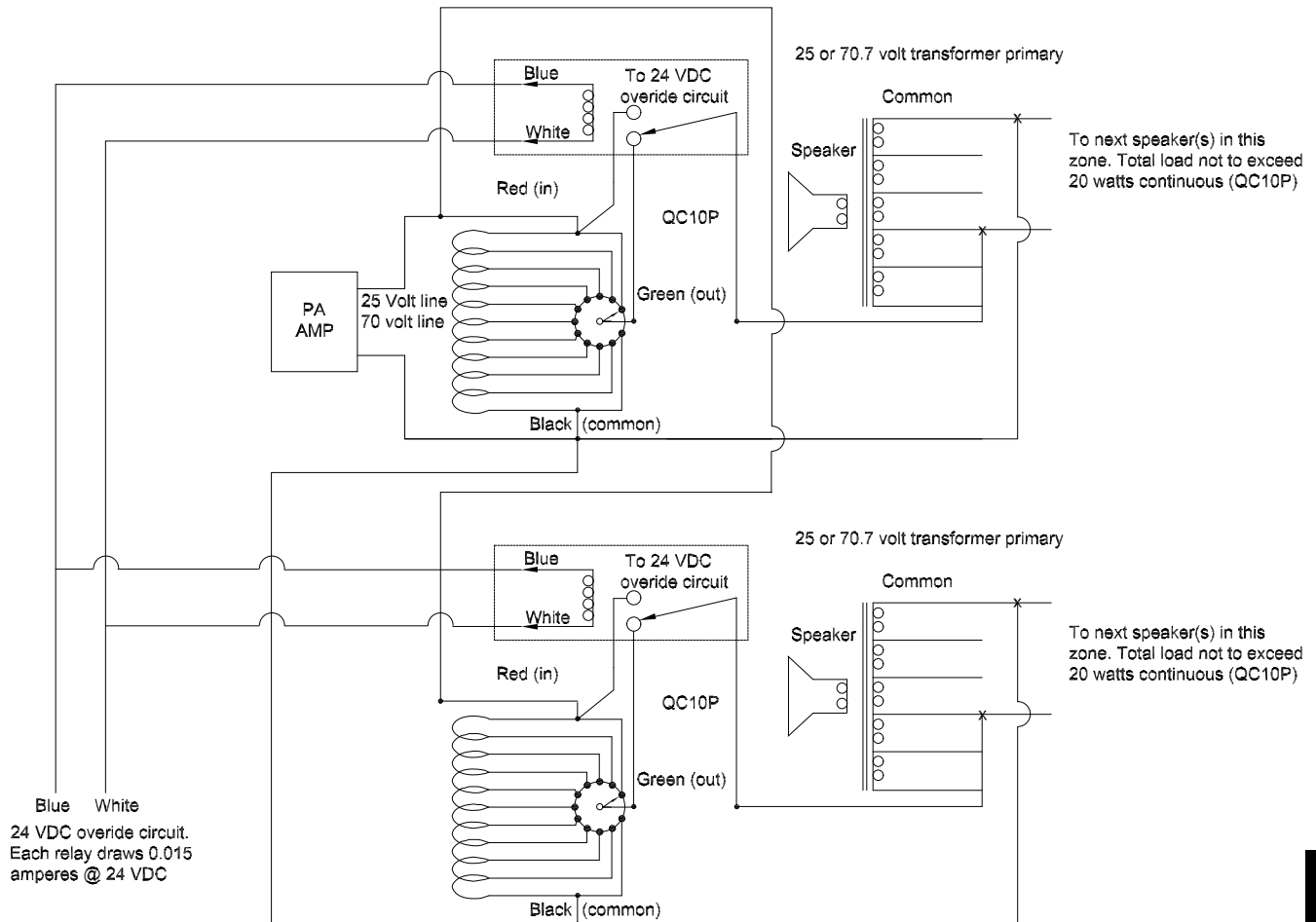


Quam

QC10P
0501-Attenuators

WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



ATTENUATORS

05

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WQC10P_07DE04



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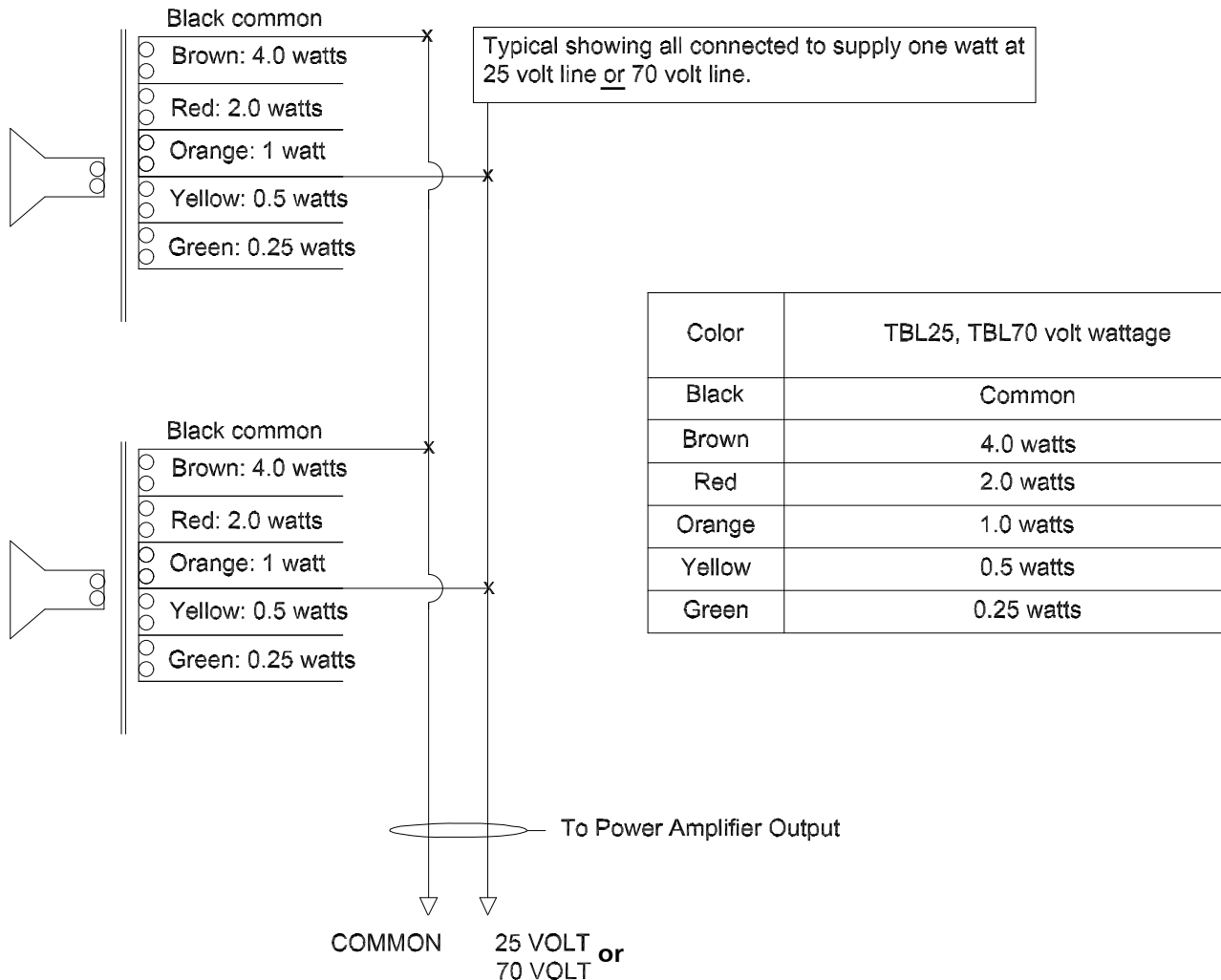
Single Voltage, Multi-Tap Line Tranformer

TBL25 25V, 4W

TBL70 70.7V, 4W

WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



TRANSFORMERS

05

*Note: Each unused transformer tap must be insulated from each other and from ground.
Transformer color codes shown are for Quam model TBL25 and TBL70.

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WTBL25_TBL70_07DE04

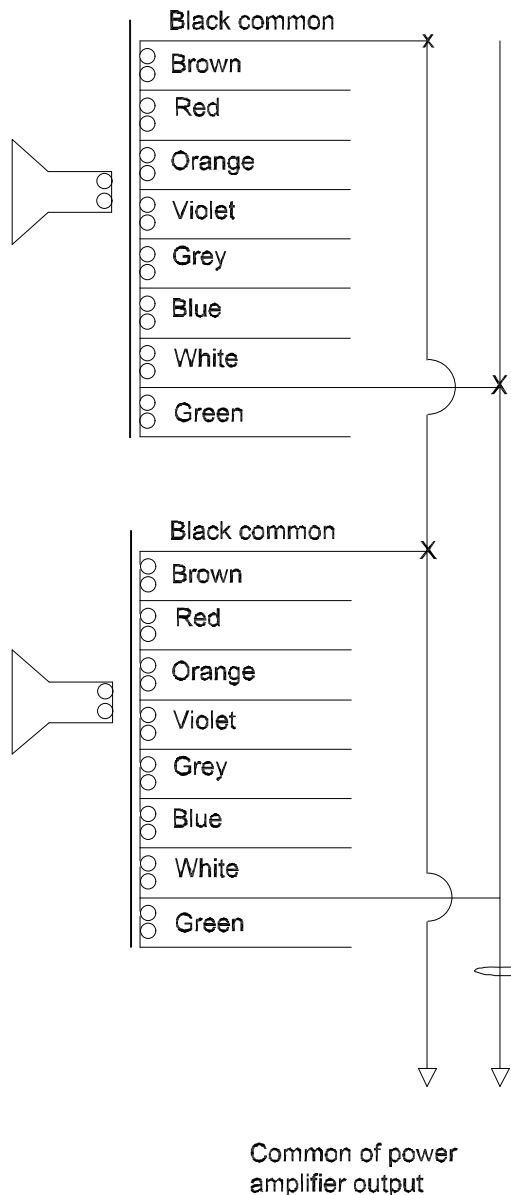


Quam

TBLU 25V-70.7V, 5W
Dual Voltage, Multi-Tap
Line Transformer

WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



Quam model TBLU transformer is a universal transformer for use with either 25 or 70.7 volt lines. The example shown would supply .312 of a watt to each speaker if the amplifier was connected for 25 volt. Each speaker would be supplied with 2.5 watts if the amplifier was connected for 70.7 volt.

Color	25 volt wattage	70 volt wattage
Black	Common	Common
Brown	5.0 watts	Not used
Red	2.5 watts	Not used
Orange	1.25 watts	Not used
Violet	not used	.312 watts
Grey	not used	.625 watts
Blue	not used	1.25 watts
White	.312 watts	2.5 watts
Green	.625 watts	5.0 watts

If system is 25 volt: connect to power amplifier 25 volt output terminal.

If system is 70 volt: connect to amplifier 70.7 volt output terminal.

*Note: Each unused transformer tap must be insulated from each other ground. Transformer color codes shown are for Quam model TBLU.

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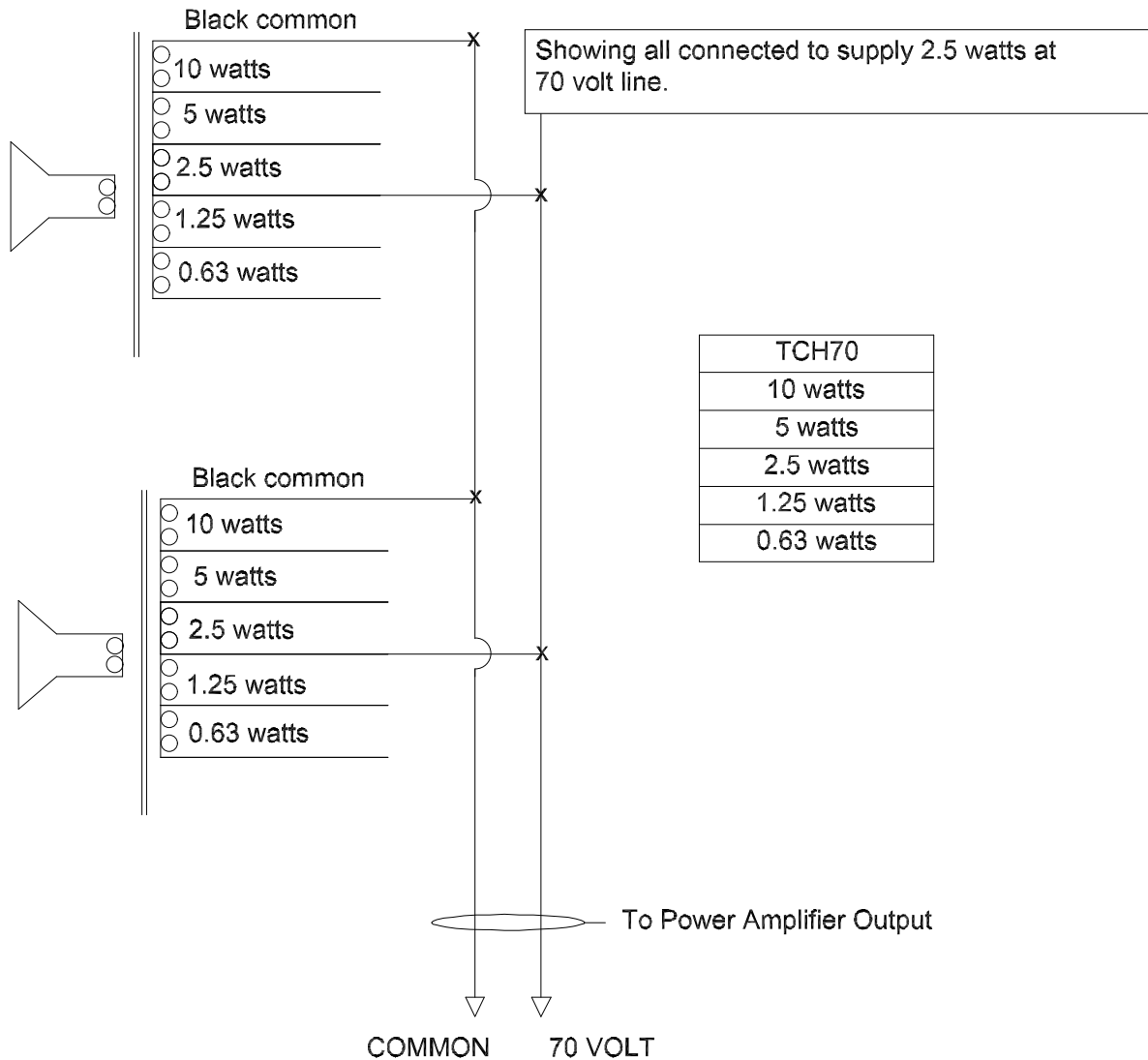
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Quam

TCH70 70.7V, 10W Low-Loss, Extended Bandwidth Multi-Tap Line Transformer

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



ATTENUATORS

05

*Note: Each unused transformer tap must be insulated from each other and from ground.

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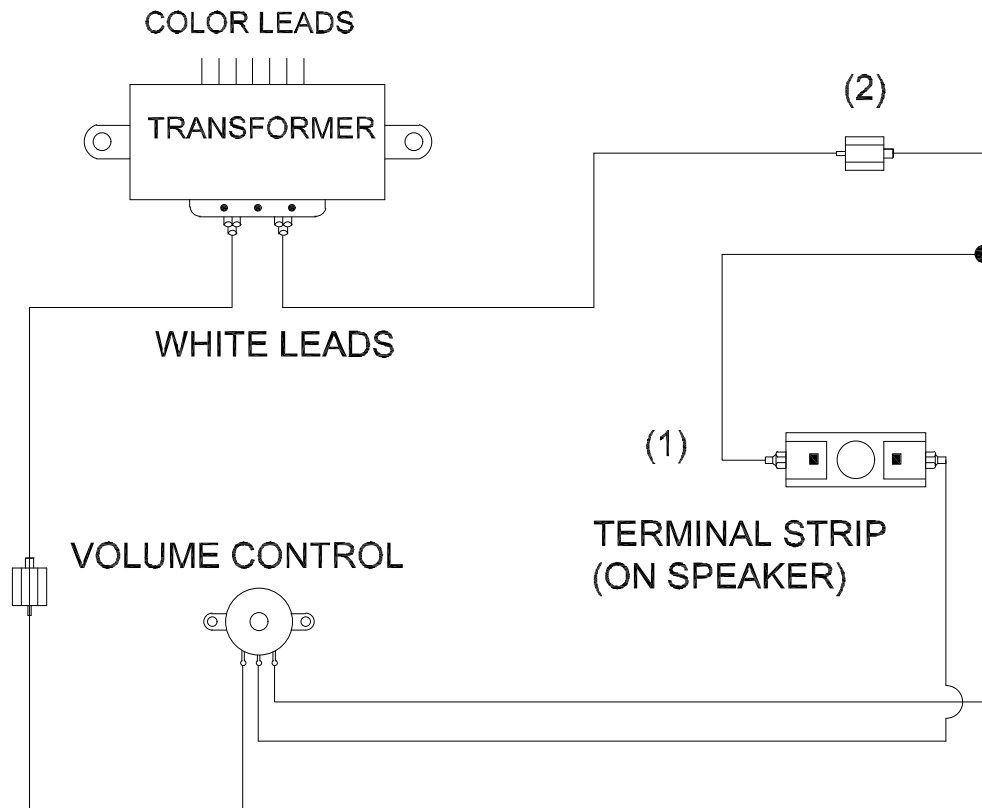


Quam

/ VC

Volume Control Option
WIRING DIAGRAM

0580- WIRING DIAGRAMS, ATTENUATOR/ TRANSFORMER



INSTRUCTIONS:

1. Connect the FEMALE connectors from the Volume Control to the terminal strip on the loudspeaker.
2. Connect the MALE connectors from the Volume Control to the FEMALE connectors of the white wire leads coming from the transformer.

ATTENUATORS

05

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W_VC_10AP01



Quam

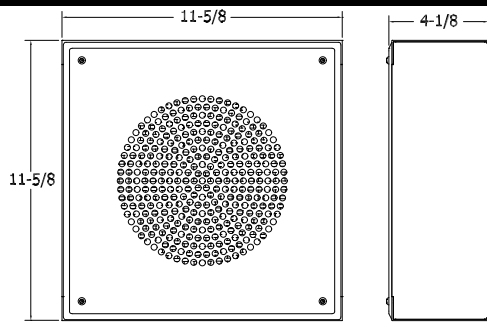
SYSTEM 1VP

Wall Mount, Square, White

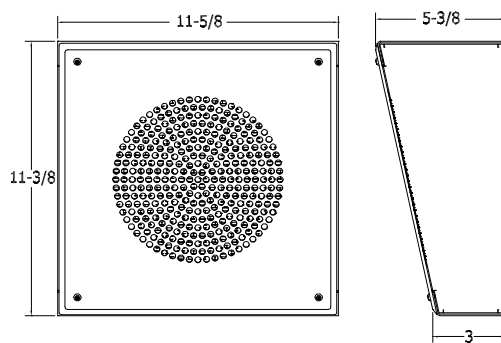
SYSTEM 2VP

Wall Mount, Slanted, White

060 I – VANDAL RESISTANT SPEAKER ASSEMBLIES



SYSTEM 1VP SHOWN



SYSTEM 2VP SHOWN



SYSTEM 2VP SHOWN

GENERAL DESCRIPTION

The Quam SYSTEM 1VP is a square format, vandal-resistant loudspeaker system.

The Quam SYSTEM 2VP is a slanted format, vandal-resistant loudspeaker system.

Both versions are a complete loudspeaker assembly, with 8" frame loudspeaker, 25/70.7V universal transformer, 16 gage square steel enclosure and baffle with #8-32 'pin-in-torx' hardware. Both versions are supplied with three (3) steel interwoven security screens mounted between the baffle and the loudspeaker. Finish: White baked epoxy hybrid.

INTENDED USE

Both variants: Protected outdoor or indoor environments

SYSTEM 1VP: Vertical or horizontal surface mount

SYSTEM 2VP: Vertical surface mount, downward firing

Program Material: Signal tones, voice and music

SYSTEM COMPONENTS

Loudspeaker	8C10PAOT
Transformer	TBLU-5W, 25 and 70.7V, 5 taps at -3 dB levels
Enclosure	
SYSTEM 1VP	SE1WVP
SYSTEM 2VP	SE2WVP
Baffle	BS8VP

AUDIO SPECIFICATIONS

Speaker Size	8" frame
Average Sensitivity	94 dB SPL, 1W/ 1M
Loudspeaker Power Rating	20W RMS, EIA 426A Standard
Calculated Maximum System Output	104dB SPL, 5W/ 1M
Magnet Type, Weight	BeFe Ceramic, 10 oz. Nominal
Frequency Response	60Hz - 17 kHz EIA 462A Standard
Nominal Coverage Angle	100° Included Angle, -6 dB / 2 kHz, Half space
Audio Connection	7" color-coded pigtails, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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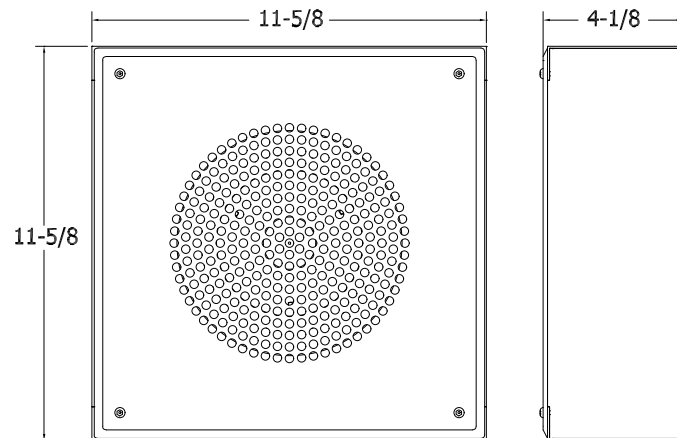


Quam

SYSTEM 6VP

Vandal Resistant, Paging Horn Speaker System

0102 - SURFACE MOUNTED SPEAKER SYSTEMS



01
LOUDSPEAKER ASSEMBLIES

GENERAL DESCRIPTION

The Quam SYSTEM 6VP is a complete loudspeaker assembly with double re-entrant horn, compression type loudspeaker, 25 and 70.7V universal transformer, baffle is 16 gage steel with vandal-resistant internal baffle; enclosure is 16 gage CRS with #8-32 'pin-in-torx' hardware.

Finish: White baked epoxy hybrid finish.

INTENDED USE

Outdoor or Indoor environment, vertical or horizontal surface mount

Program Material: Voice and signal tone

SYSTEM COMPONENTS

Loudspeaker:	H16
Transformer:	Integral to unit, 16W, 25 and 70.7V, 5 taps at -3dB levels*
Enclosure:	SE1WVP
Baffle:	BS8VP

*16W, 8W, 4W, 2W, 1W

AUDIO SPECIFICATIONS:

Speaker Type	Compression, re-entrant horn
Average Sensitivity	110 dB-SPL, 1W / 1M
Power Rating	16W-RMS, EIA 426A Standard
Calculated Maximum System Output	121dB-SPL, 16W/ 1M
Frequency Response	350 -10 kHz
Nominal Coverage Angle:	90° Included Angle, -6 dB / 2 kHz, Half Space
Audio Connection:	7" long, color-coded tinned wires, pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0602- Vandal Resistant Intercom Assemblies

0603- Vandal Resistant Components

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TSYS6VP_09JN09

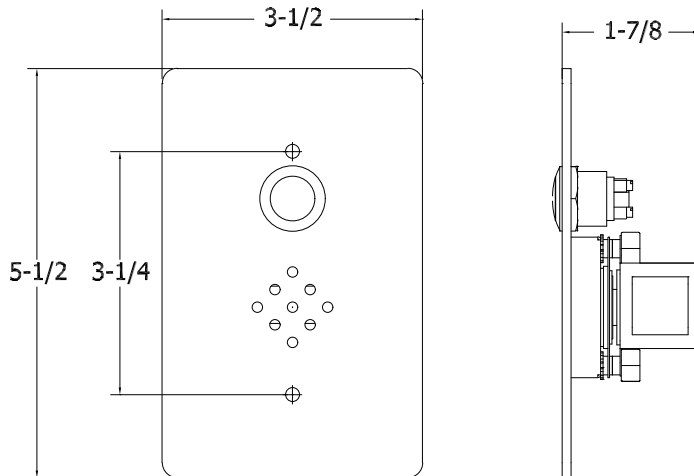


Quam

CIS12/25

**1-Gang, Vandal Resistant Call-In Station,
with 25V Transformer, Stainless Steel**

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



GENERAL DESCRIPTION

The Quam CIS12/25 is a complete vandal-resistant 1-gang call-in station with integral speaker/microphone, 25V transformer and momentary, normally open, push-to-call button. The faceplate is 12 gage, brushed stainless steel with tamper-resistant, #6-32 'pin-in-torx' hardware. An optional, red mushroom button can be substituted at extra cost at the time of order.

Other transformer and voice coil impedances options are available, please contact Factory.

INTENDED USE: All variants

Outdoor or indoor environment.

Program material: Signal tones and voice

SYSTEM COMPONENTS

Loudspeaker	Weatherproof mylar cone
Transformer:	25V, 1W, 3 taps at -3 db levels

Recommended QUAM VANDAL RESISTANT Accessory MP1 Mounting Platform

AUDIO SPECIFICATIONS

Speaker Size	1.75"
Average Sensitivity	84 dB-SPL, 1W / 1M
Power rating	1W RMS, EIA 426A Standard
Frequency Response	250 - 6 kHz EIA 426A Standard
Nominal Coverage Angle	90° Included Angle -6 dB / 2 kHz, half space
Audio Connection	Transformer: 7" long, color-coded tinned wires, Pre-cut

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TCIS12_09JN09

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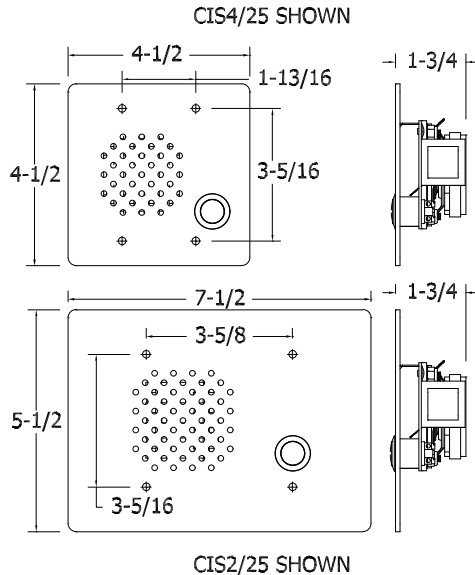
06



Quam

CIS4/xx
2-Gang, Vandal Resistant Call-In Station, Stainless Steel
CIS2/xx
3-Gang, Vandal Resistant Call-In Station, Stainless Steel

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



CIS4/x SHOWN

GENERAL DESCRIPTION - All variants

The Quam CISx/xx is a complete vandal-resistant call-in station with integral speaker/microphone and momentary, normally open, push-to-call button. The faceplate is 12 gage, brushed stainless steel with three (3) interwoven, steel security screens mounted between the faceplate and the loudspeaker; tamper-resistant, #6-32 'pin-in-torx' hardware is included. An optional, red mushroom button can be substituted at extra cost at the time of order.

The Quam CIS4/xx, as above in 2-gang wide format

The Quam CIS2/xx, as above in 3-gang wide format

Specify at time of order, one of following:

8 or 45 Ohm impedance voice coil -or-
25V multi-tap transformer

Other transformer options available, please contact Factory

INTENDED USE: All variants

Outdoor or indoor environment.

Program material: Signal tones and voice

SYSTEM COMPONENTS

Loudspeaker	3" weatherproof (CIS2 format) 2-1/2" weatherproof (CIS4 format) Phenolic impregnated cone
Transformer Option: 25V	1W, 3 taps at -3 db levels Order CISx/25
Voice Coil Options: 8 Ω 45 Ω	Order CISx/8 Order CISx/45

Recommended QUAM VANDAL RESISTANT Enclosures

CIS2/xx only:

0603 SE3GVP Surface Mount Enclosure

0603 SE10GVP Hooded Enclosure

CIS4/xx only:

0603 SE6GVP Surface Mount Enclosure

0603 SE7GVP Hooded Surface Mount Enclosure

0603 SE8GVP Angled Surface Mount Enclosure

AUDIO SPECIFICATIONS

Speaker Size	3" - CIS2/xx, 2-1/2" - CIS4/xx
Average Sensitivity	87 dB-SPL, 1W / 1M
Power rating	1W RMS, EIA 426A Standard
Frequency Response	150 - 10 kHz, CIS2 200 - 8 kHz, CIS4 EIA 426A Standard
Nominal Coverage Angle	90° Included Angle
Coverage Angle	-6 dB / 2 kHz, half space
Audio Connections	Transformer: 7" long, color-coded tinned wires, Pre-cut 8Ω / 45Ω Speaker: 0.205 spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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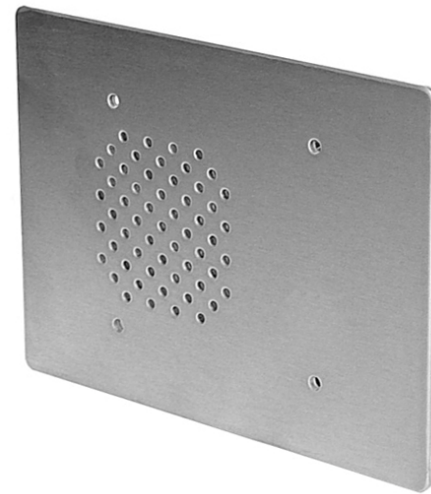
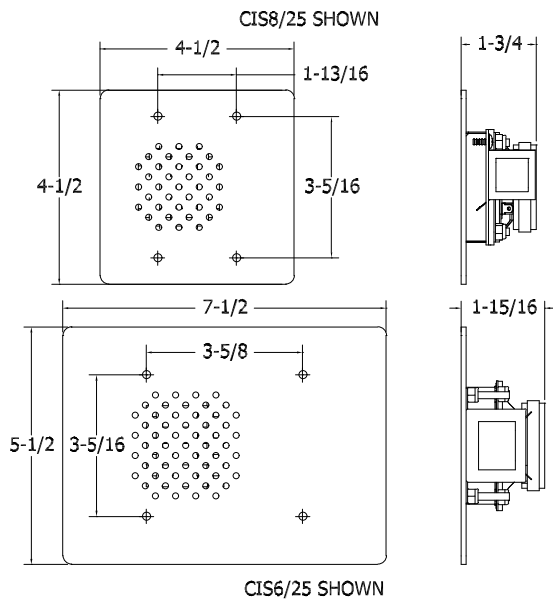
TCIS4CIS2_08DE11



Quam

CIS6/xx
3-Gang Station, No Call Button, Stainless Steel
CIS8/xx
2-Gang Station, No Call Button, Stainless Steel

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



CIS6/x SHOWN

GENERAL DESCRIPTION - All variants

The Quam CISx/xx is a vandal resistant, 'listen-only' station with integral loudspeaker. The faceplate is 12 gage, brushed stainless steel with three (3) interwoven steel security screens mounted between the faceplate and the loudspeaker; tamper-resistant, #6-32 'pin-in-torx' hardware is included.

The Quam CIS6/xx, as above in 3-gang wide format

The Quam CIS8/xx, as above in 2-gang wide format

Specify at time of order, one of following:

8 or 45 Ohm impedance voice coil -or-
25V multi-tap transformer

Other transformer options available, please contact Factory

INTENDED USE

Outdoor or indoor environment.

SYSTEM COMPONENTS

Loudspeaker	3" weatherproof (CIS6 format) 2-1/2" weatherproof (CIS8 format) Phenolic impregnated cone
Transformer Option: 25V	1W, 3 taps at -3 db levels Order CISx/25
Voice Coil Options: 8 Ω 45 Ω	Order CISx/8 Order CISx/45

RECOMMENDED ADDITIONAL QUAM COMPONENTS

CIS6/xx only:

0603 SE3GVP Vandal Resistant Surface Mount Enclosure

CIS8/xx only:

0603 SE6GVP Surface Mount Enclosure

0603 SE7GVP Hooded Surface Mount Enclosure

0603 SE8GVP Angled Surface Mount Enclosure

AUDIO SPECIFICATIONS

Speaker Size	3"- CIS6/xx, 2-1/2" - CIS8/xx
Average Sensitivity	87 dB-SPL, 1W / 1M
Power rating	1W RMS, EIA 426A Standard
Frequency Response	150 - 10 kHz, CIS6 200 - 8 kHz, CIS8 EIA 426A Standard
Nominal Coverage Angle	90° Included Angle -6 dB / 2 kHz, half space
Audio Connections	Transformer: 7" long, color-coded tinned wires, Pre-cut 8Ω / 45Ω Speaker: 0.205 spade lug

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TCIS6_CIS8_08DE11

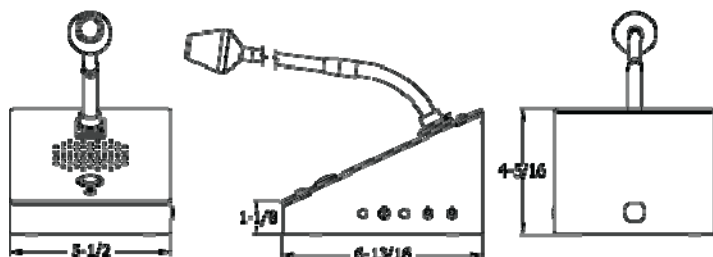


Quam

DTS I
Desktop Intercom Station,
with Replaceable Gooseneck Mic

DTS3
Desktop Intercom Station,
Less microphone

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



DTS1 Shown



GENERAL DESCRIPTION

The Quam DTSx desktop intercom station is a vandal-resistant, microphone / loudspeaker assembly with push-to-talk (PTT) button switch. Loudspeaker baffle is 12 gage, brushed stainless steel with vandal-resistant internal baffle; enclosure is 16 gage CRS with 'pin-in-torx' hardware. Console finish: black baked epoxy hybrid finish.

DTS1: As above with replaceable 18" metal gooseneck and dynamic microphone

DTS3: As above, less microphone

INTENDED USE

Indoor environment, simplex two-way communication using PTT microphone and internal, 'never full off' volume controlled, moisture-resistant loudspeaker.

Loudspeaker internally configured for either 8Ω or 25V systems. 3.5mm output jack allows use of low impedance headset (not supplied), by-passing loudspeaker function. Pre-drilled holes in base for bolt-down applications.

Program Material: Voice and signal tones

SYSTEM COMPONENT:

Loudspeaker	30C25Z80T
-------------	-----------

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0602- Vandal Resistant Intercom Assemblies
0603- Vandal Resistant Components

AUDIO SPECIFICATIONS

DTS1 Microphone Type	Unidirectional Dynamic
Sensitivity	-76 dBV/Pa \pm 4dB ¹
Impedance	500Ω Nominal
Frequency Response	130-12kHz, \pm 3dB
Loudspeaker Size	3" Frame
Average Sensitivity	87 dB, 1W/1M
Frequency Response	150-10KhZ

¹ 0dB=1V/Pa, 1kHz

ELECTRICAL SPECIFICATIONS

Volume Control	-15 dB Maximum attenuation
Headset Jack	3.5mm, mono output, disconnects 'never full off' speaker output when activated
Electrical Connections	Internal barrier strip

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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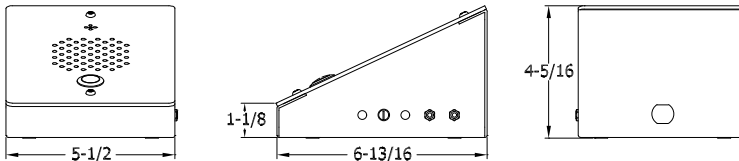
DTS1_DTS3_10MR16



Quam

DTS2 Desktop Intercom Station, Flush Mic

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



GENERAL DESCRIPTION

The Quam DTS2 desktop intercom station is a vandal-resistant, flush mounted electret microphone / loudspeaker assembly with push-to-talk (PTT) button switch. Loudspeaker baffle is 12 gage, brushed stainless steel with vandal-resistant internal baffle; enclosure is 16 gage CRS with 'pin-in-torx' hardware. Console finish: black baked epoxy hybrid finish.

INTENDED USE

Indoor environment, simplex two-way communication using PTT microphone and internal, 'never full off' volume controlled, moisture-resistant loudspeaker.

Loudspeaker internally configured for either 8Ω or 25V systems. 3.5mm output jack allows use of low impedance headset (not supplied), by-passing loudspeaker function. Pre-drilled holes in base for bolt-down applications.

Program Material: Voice and signal tones

SYSTEM COMPONENT:

Loudspeaker	30C25Z80T
-------------	-----------

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0602- Vandal Resistant Intercom Assemblies
0603- Vandal Resistant Components

AUDIO SPECIFICATIONS

Microphone Type	Unidirectional Electret
Sensitivity	-51 dBV/Pa \pm 4dB ¹
Impedance	600Ω Nominal
Frequency Response	180-12kHz, \pm 3dB
Supply Voltage	1.5V, 0.5mA maximum draw
Loudspeaker Size	3" Frame
Average Sensitivity	87 dB, 1W/1M
Frequency Response	150-10KHz

¹ 0dB=1V/Pa, 1kHz

ELECTRICAL SPECIFICATIONS

Volume Control	-15 dB Maximum attenuation
Headset Jack	3.5mm, mono output, disconnects 'never full off' speaker output when activated
Electrical Connections	Internal barrier strip

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

CORRECTION / DETENTION

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TDS2_10MR15

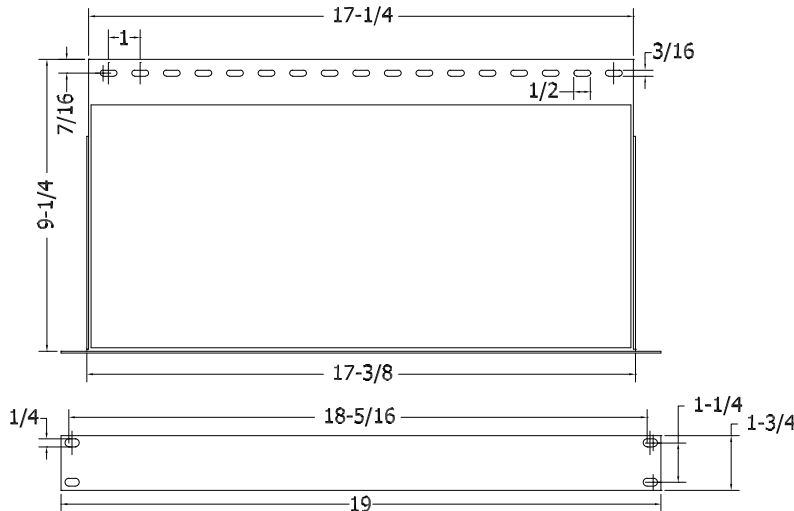


Quam

RSP1

32-Circuit, Relay Selection Panel

0602 - VANDAL RESISTANT INTERCOM ASSEMBLIES



GENERAL DESCRIPTION

The Quam RSP1 is a 32-circuit, relay operated selection panel that is used between control equipment and individual simplex call-in field stations. Additional units may be added for future expansion.

Individual call-in buttons are routed to the PLC control interface connector, to provide an individual input to the PLC system for each of the 32 intercom stations.

A separate program buss captures all 32 circuits providing routing from the control equipment for audio program to all field stations. Control room response to the actuation of a call-in button interrupts the program signal only to that station.

INTENDED USE

Rack mounted, secure indoor environment
This device is NOT vandal-resistant.

SYSTEM REQUIREMENTS

24VDC from individual Programmable Logic Controller
Maximum Load: Less than 0.75A at 24VDC, all circuits actuated simultaneously

Control Connection: IDC Type, 0.1" x 0.1" Quick Connector
Call-In/ Loudspeaker Connections: Phoenix Contact® Type MSTB, Screw-type, 24-12AWG, stranded or solid wire.

Phoenix Contact® Insulation Displacement connector kit available at additional cost; please contact the Factory.

RECOMMENDED ADDITIONAL QUAM COMPONENTS

CIS2/xx, 3-gang, Vandal Resistant Call-In station, stainless steel
8Ω or 45Ω Operation, specify at time of order

Use with:

SE3GVP Vandal Resistant surface mount enclosure

CIS4/xx, 2-gang, Vandal Resistant Call-In station, stainless steel
8Ω or 45Ω Operation, specify at time of order

Use with one of the following:

SE6GVP Vandal Resistant Surface mount enclosure

SE7GVP Vandal Resistant Hooded surface mount enclosure

SE8GVP Vandal Resistant Angled surface mount enclosure

SPECIFICATIONS

Capacity	32 Circuits, Call-in and loudspeaker mode, simplex operation
Relays	2A Rating, Contacts: Ag, (Au clad), sealed design, MTBF ≥ 10M cycles Individual current draw: 23mA/24VDC
Weight	5 lb. / 2.3Kg
Finish:	Black baked epoxy hybrid

Operation and applications manual is available in .PDF at:
www.QuamSpeakers.com>Products>Correction Detention>Vandal Resistant Intercom Assemblies>RSP1>Wiring

CORRECTION / DETENTION

06

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Phone: (800) NEED NOW Fax: (888) NEED NOW
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TRSP1_09_NO14



Quam

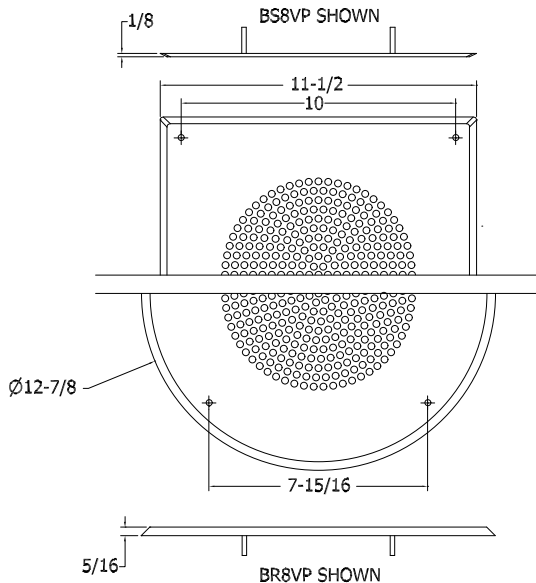
BR8VP

Vandal Resistant, Round Loudspeaker Baffle

BS8VP

Vandal Resistant, Square Loudspeaker Baffle

0603 - VANDAL RESISTANT COMPONENTS



GENERAL DESCRIPTION

The Quam BR8VP is a 16 gage steel, round vandal-resistant loudspeaker baffle.

The Quam BS8VP is a 16 gage steel, square vandal-resistant loudspeaker baffle.

Both versions are supplied with a steel interwoven security screen to be mounted between the baffle and loudspeaker, 4 welded 8-32 x 1" studs on the back surface for speaker mounting and 4 8-32 x 1" 'pin-in-torx' mounting screws and tool.

Finish: White baked epoxy hybrid.

INTENDED USE

Outdoor or indoor environment. For use with 8" frame loudspeakers and related components.

SYSTEM COMPONENTS

N/A

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- | | |
|---------|--|
| 0104.4- | Speaker, Transformer Assemblies |
| 0201- | Coaxial Loudspeakers, Individual |
| 0202- | Dual Voice Coil Loudspeakers, Individual |
| 0203- | Public Address Loudspeakers, Individual
(Except 4C3PAB, 4C10PAB, 12C10PAXB) |
| 0401- | Flush Mounted Back Boxes |
| 0402- | Loudspeaker Mounting Devices
(Except SSB-4, SSB-6, SSB-9) |

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TBR_S8VP-09JN09



Quam

CIB2

Single-Gang, Call-In Switch,
Stainless Steel, Vandal Resistant

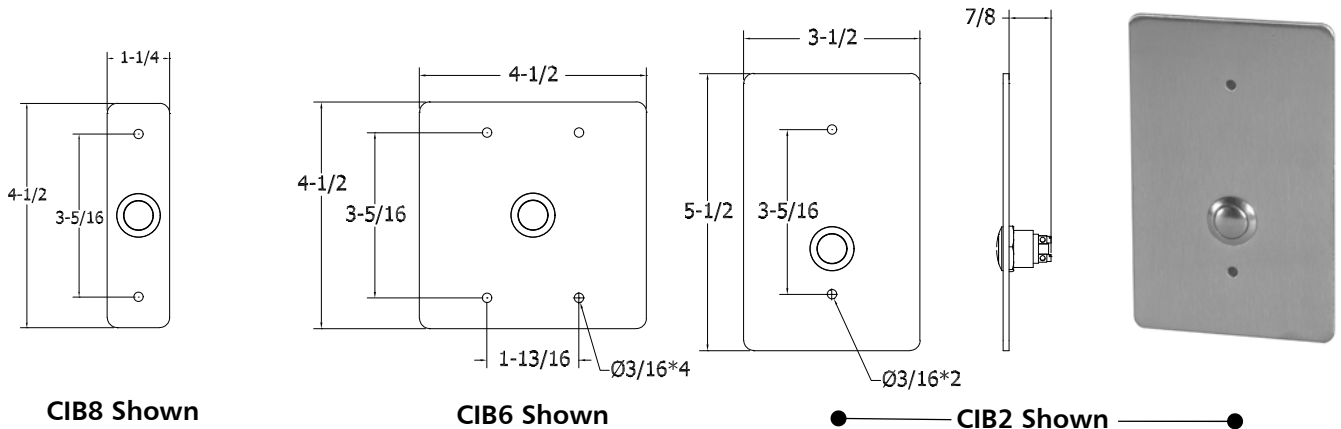
CIB6

Two-Gang, Call-In Switch,
Stainless Steel, Vandal Resistant

CIB8

Door Mullion, Call-In Switch,
Stainless Steel, Vandal Resistant

0603- VANDAL RESISTANT COMPONENTS



CIB8 Shown

CIB6 Shown

CIB2 Shown

GENERAL DESCRIPTION

The Quam CIB2 is a single-gang, vandal-resistant call-in switch with momentary, normally open, push-to-call button.

The Quam CIB6 is a two-gang, vandal-resistant call-in switch with momentary, normally open, push-to-call button.

The Quam CIB8 is a door mullion vandal-resistant call-in switch, with momentary, normally open, push-to-call button.

The faceplate is 12 gage, brushed stainless steel with tamper-resistant, #6-32 'pin-in-torx' hardware.

Optional at additional cost:

Engrave and fill is available at time of order. Contact the Factory for details and lead times.

INTENDED USE

Outdoor or indoor environment.

SWITCH CONNECTION

Screw-down pinch connector

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TCIB2_CIB6_CIB8_07DE11

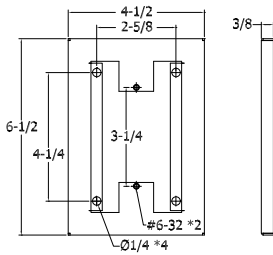


Quam

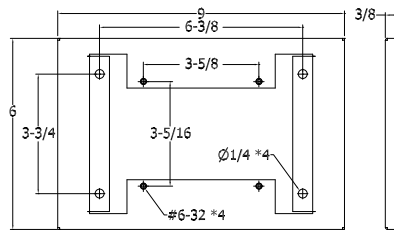
MP 1, MP 2, MP 3

**Vandal Resistant
Oversized Mounting Platform**

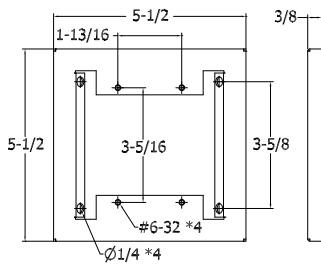
0603 - VANDAL RESISTANT COMPONENTS



MP 1



MP 3



MP 2 Shown



**MP 1 shown with CIB2,
ordered separately**

GENERAL DESCRIPTION

The Quam MP x is a 16 gage steel vandal-resistant, oversized mounting platform. Finish: Black baked epoxy hybrid.

Available configurations:

MP 1- 1- gang

MP 2- 2- gang

MP 3- 3- gang

INTENDED USE

Protected outdoor or indoor environment.

Platform design provides coverage of oversized rear access holes. Rear flange may be filed or ground to conform to site conditions and irregular masonry surfaces.

RECOMMENDED ADDITIONAL QUAM COMPONENTS

MP1- Single Gang

0603- Vandal Resistant Components

CIB2- Switch, Call-In, Stainless, Vandal Resistant

MP 2- 2-gang

0602- Vandal Resistant Intercom Assemblies

CIS4/x- 2-gang Call-In Station, Stainless, Vandal Resistant

CIS8/x- 2-gang, 'Listen-only' Station, Stainless, Vandal Resistant

MP 3- 3-gang

0602- Vandal Resistant Intercom Assemblies

CIS2/x- 3-gang Call-In Station, Stainless, Vandal Resistant

CIS6/x- 3-gang, 'Listen-only' Station, Stainless, Vandal Resistant

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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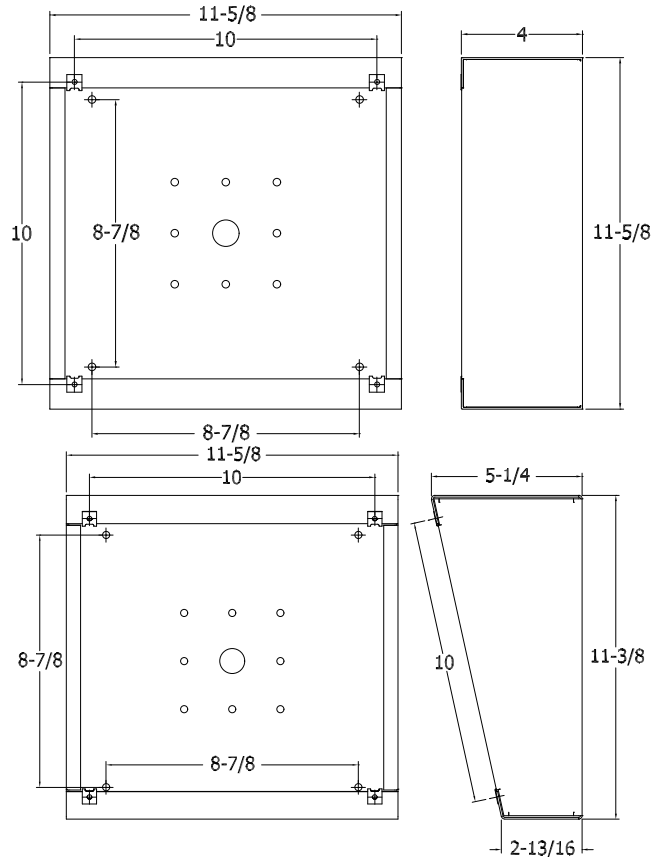




SE1WVP
Vandal Resistant Square Surface Mount
Loudspeaker Enclosure

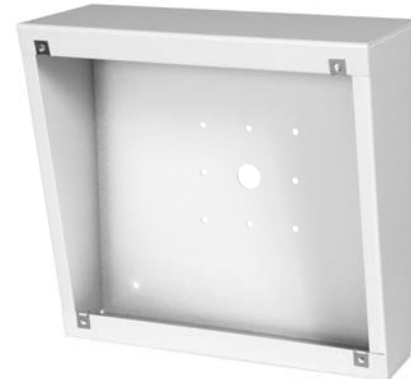
SE2WVP
Vandal Resistant Slanted Surface Mount
Loudspeaker Enclosure

0603 - VANDAL RESISTANT COMPONENTS



SE1WVP

SE2WVP



GENERAL DESCRIPTION

The Quam SE_WVP format is a 16 gage steel, vandal-resistant loudspeaker surface mount enclosure with 4 #8-32 threaded inserts and single 1/2" conduit entrance.

Finish: White baked epoxy hybrid

INTENDED USE

Outdoor or indoor use only with recommended Quam components

SE1WVP- Square format, Vertical or horizontal installation

SE2WVP- Slanted format, Vertical installation, downward firing

RECOMMENDED QUAM COMPONENTS

0103- Paging Horn- H16/SVP, paging horn with square baffle, SE1WVP Only

or following combination:

0204- Moisture Resistant Loudspeakers, Individual 8C10PAOT

0502-Transformers, TBLU- 5W, 25V/70.7V, 5 taps at -3db levels

0603- Vandal Resistant Components, BS8VP- Square Baffle

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TSE1WVP_SE2WVP_07MR03

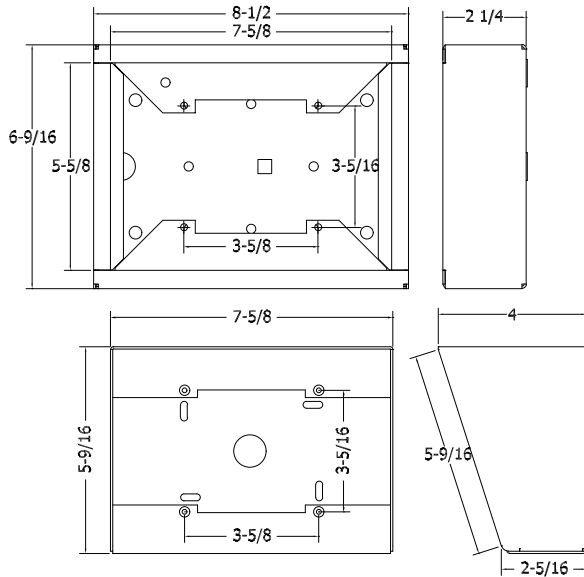


SE3GVP
Vandal Resistant Surface Mount Enclosure, 3-Gang

SE10GVP
Vandal Resistant Surface Hooded Enclosure, 3-Gang

0603 - VANDAL RESISTANT COMPONENTS

SE3GVP



SE10GVP



SE10GVP shown

GENERAL DESCRIPTION

The Quam SE_GVP format is a 16 gage steel, vandal-resistant enclosure for a 3-gang call-in or listen-only station. All enclosures have 4 #6-32 threaded inserts on standard 2-gang centers; conduit entrance(s) are nominal 1/2".

Finish: Gray baked epoxy hybrid

Variants of the SE_GVP format are:

SE3GVP- Surface mount enclosure, as above

SE10GVP- Hooded enclosure, as above

INTENDED USE

Outdoor or indoor environment

RECOMMENDED ADDITIONAL QUAM COMPONENTS

0602- Vandal Resistant Intercom Assemblies

CIS2/xx 3-gang call-in stations

CIS6/xx 3-gang 'listen-only' stations

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TSE_GVP_09NO14

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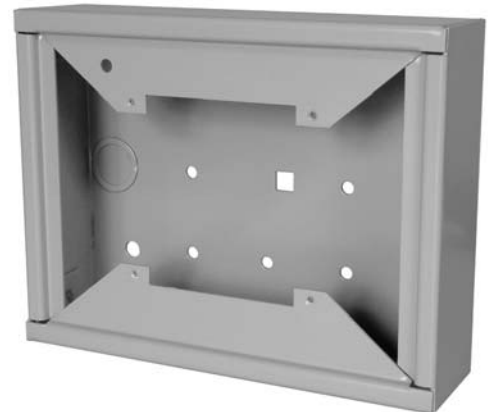
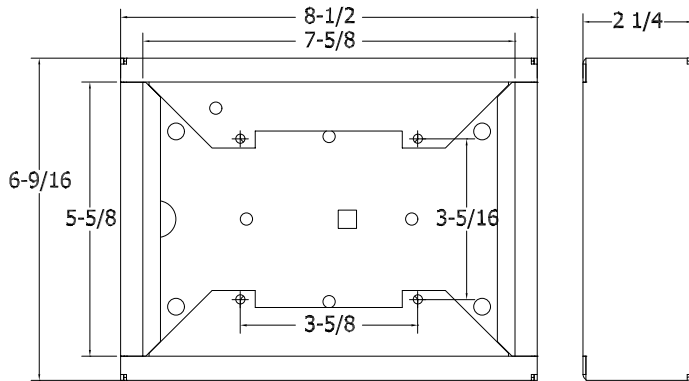


Quam

SE3GVP

Vandal Resistant Enclosure, 3-Gang

0603 - VANDAL RESISTANT COMPONENTS



GENERAL DESCRIPTION

The Quam SE3GVP is a 16 gage steel, vandal-resistant enclosure for a 3-gang call-in or listen-only station.

Enclosure has four #6-32 threaded inserts on standard 3-gang centers and two 1/2" / 3/4" combination knock-out conduit entrances.

Finish: Gray baked epoxy hybrid

INTENDED USE

Outdoor or indoor environment

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0602– Vandal Resistant Intercom Assemblies
- CIS2/xx 3-gang call-in stations
- CIS6/xx 3-gang listen-only stations

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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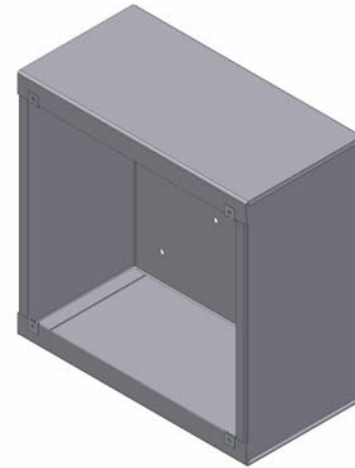
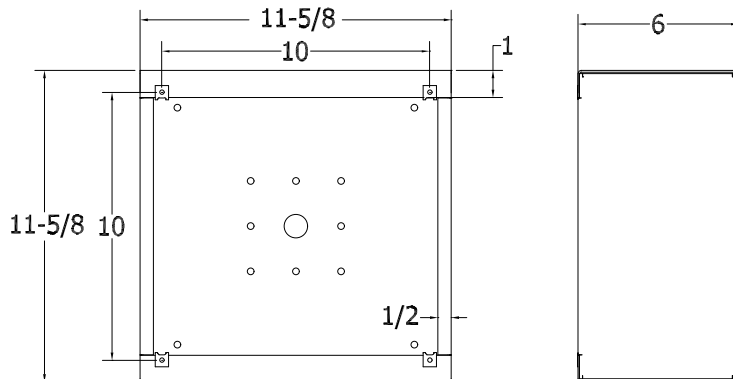
TSE3GVP_10FE04



Quam

SE5WVP Vandal Resistant Loudspeaker Enclosure

0603 - VANDAL RESISTANT COMPONENTS



GENERAL DESCRIPTION

The Quam SE5WVP is a 16 gage steel, vandal-resistant loudspeaker enclosure.

Enclosure has 4 #6-32 threaded inserts and 3/4" conduit entrance on the rear of the enclosure

Finish: White baked epoxy hybrid

INTENDED USE

Outdoor or indoor environment

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0103- Paging Horn
H16/SVP 16W Paging Horn, 25/70V xfm with Vandal Resistant Baffle
- or following components-
- 0204- Public Address Loudspeaker
8C10PAOT- 8 Ohm, 10 oz. magnet, Moisture resistant
- 0502- Transformers
(Chose per application)
- 00603- Vandal Resistant Components
BS8VP-Square, Vandal Resistant baffle for 8" loudspeaker

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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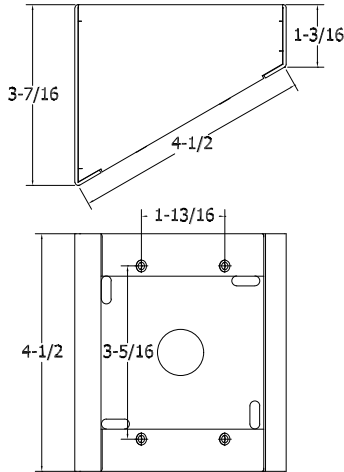


TSE5WVP_08MY05



SE6GVP
Vandal Resistant Surface Mount Enclosure, 2-Gang
SE7GVP
Vandal Resistant Surface Hooded Enclosure, 2-Gang
SE8GVP
Vandal Resistant Angle Mount Enclosure, 2-Gang

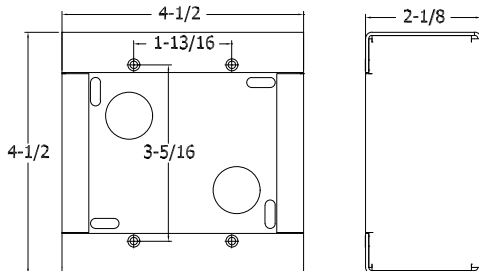
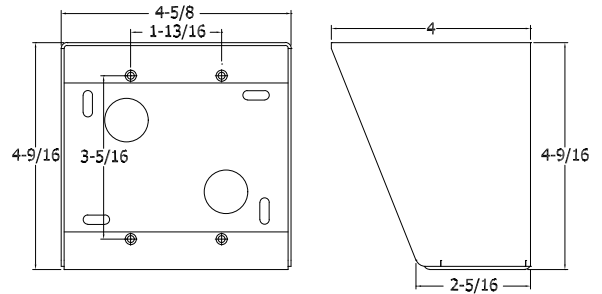
0603 - VANDAL RESISTANT COMPONENTS



SE8GVP



SE7GVP
 shown with
 Quam CIS4/xx



SE6GVP

GENERAL DESCRIPTION

The Quam SE_GVP format is a 16 gage steel, vandal-resistant enclosure for a 2-gang call-in or listen-only station. All enclosures have 4 #6-32 threaded inserts on standard 2-gang centers; conduit entrance(s) are nominal 1/2".

Finish: Gray baked epoxy hybrid

Variants of the SE_GVP format are:

- SE6GVP-Surface mount enclosure, as above
- SE7GVP- Hooded enclosure, as above
- SE8GVP- Angled enclosure, as above

INTENDED USE

Outdoor or indoor environment

RECOMMENDED ADDITIONAL QUAM COMPONENTS

- 0602- Vandal Resistant Intercom Assemblies
- CIS4/xx 2-gang call-in stations
- CIS8/xx 2-gang listen-only stations

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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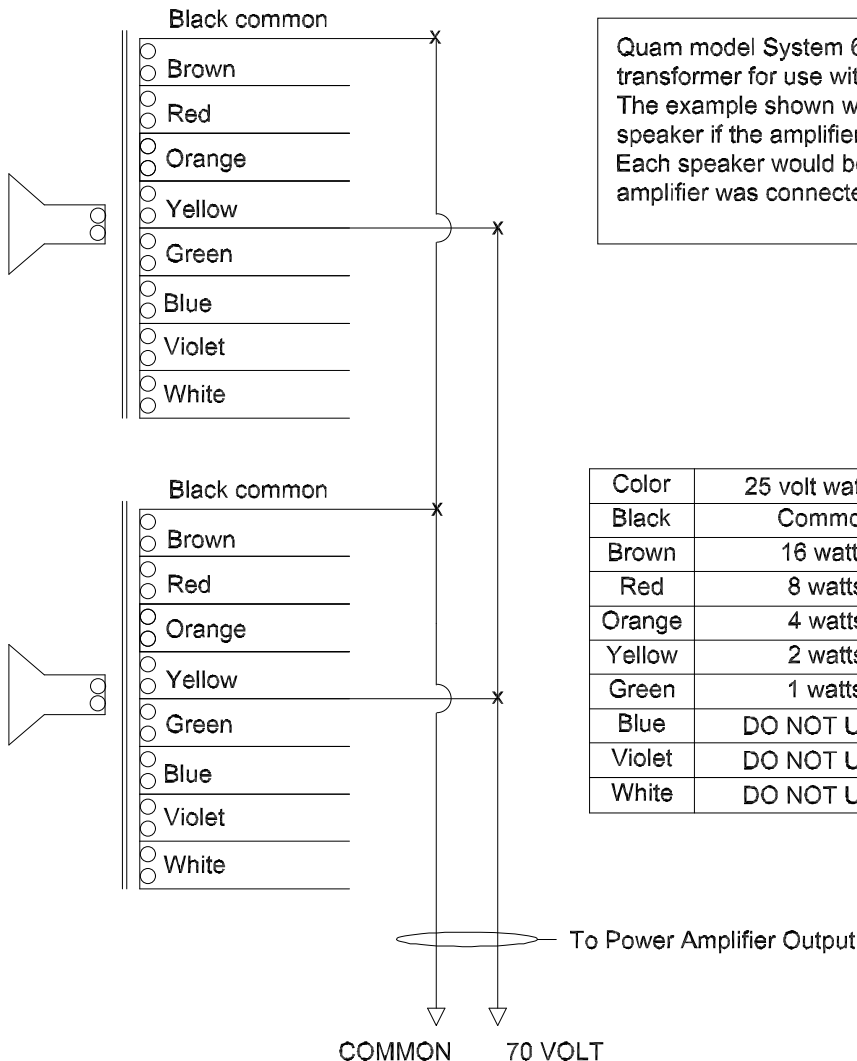


Quam

SYSTEM 6VP
Vandal Resistant, Paging Horn Speaker System

WIRING DIAGRAM

0601 - VANDAL RESISTANT SPEAKER ASSEMBLIES



Quam model System 6VP transformer is a universal transformer for use with either 25 or 70 volt lines. The example shown would supply 1 watt to each speaker if the amplifier was connected for 25 volt. Each speaker would be supplied with 8 watts if the amplifier was connected for 70 volts.

Color	25 volt wattage	70 volt wattage
Black	Common	Common
Brown	16 watts	DO NOT USE
Red	8 watts	DO NOT USE
Orange	4 watts	DO NOT USE
Yellow	2 watts	16 watts
Green	1 watts	8 watts
Blue	DO NOT USE	4 watts
Violet	DO NOT USE	2 watts
White	DO NOT USE	1 watts

*Note: Each unused transformer tap must be insulated from each other and from ground.
Transformer color codes shown are for Quam System 6VP transformer.

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SYS6VP_WD_08FE12



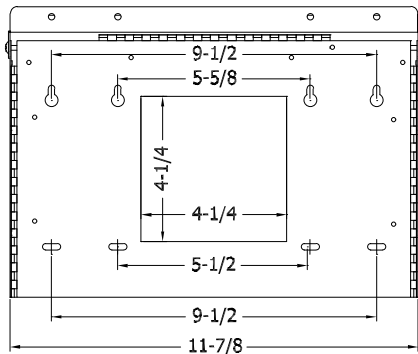
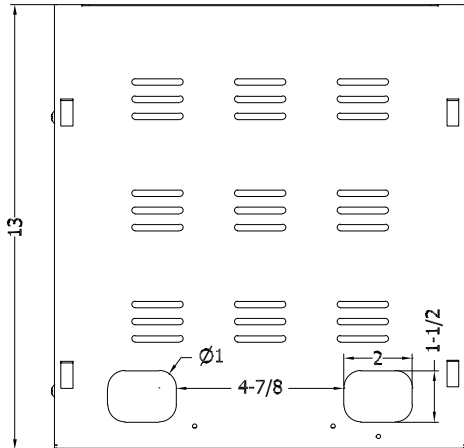
AS11X12

Wall Mount Equipment Shelf, Black

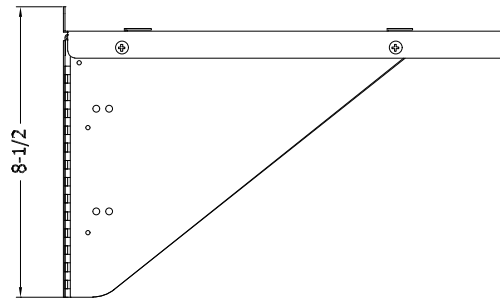
AS11X12/ W

Wall Mount Equipment Shelf, White

0701 - WALL MOUNT EQUIPMENT SHELVES



AS11x12 Shown



GENERAL DESCRIPTION

The Quam AS11X12 is a steel, wall mounted equipment shelf assembly consisting of a horizontal platform with 1/2" raised front lip, and two support arms. Finish: Baked epoxy hybrid.

FINISH OPTIONS

Black	Order as: AS11x12
White	Order as: AS11x12/ W

INTENDED USE

Indoor, mounted perpendicular to wall surface and parallel to floor. Static load as noted in specifications.

SPECIFICATIONS

Static Load Capacity	AS11X12- 40 pounds*
----------------------	---------------------

*SAFETY WARNING! It is the responsibility of the Contractor and the AHJ to determine fastener type and method based on static load, mounting structure and local building codes.

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TAS11X12_09NO12

SHELVES

07



Quam

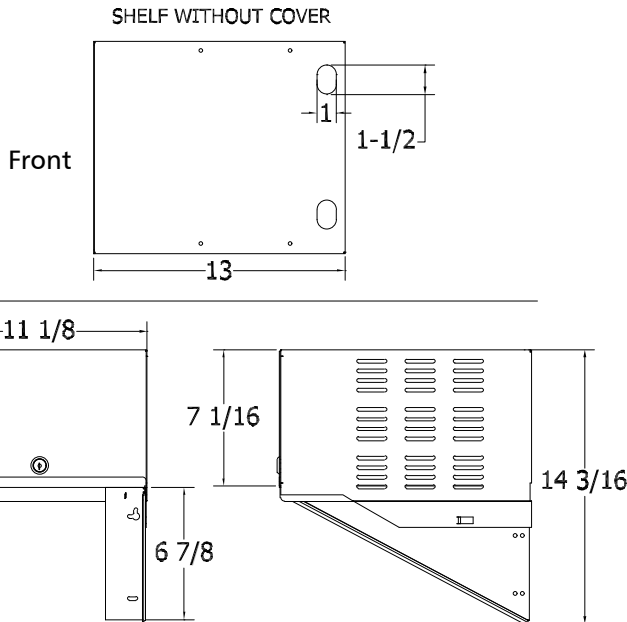
AS11X12/COVER

Wall Mount Equipment Shelf
and Lockable Cover Combination, Black

AS11X12/COVER/ W

Wall Mount Equipment Shelf
and Lockable Cover Combination, White

0701 - WALL MOUNT EQUIPMENT SHELVES



AS11x12/ COVER Shown

GENERAL DESCRIPTION

The Quam AS11X12/COVER is a steel, wall mounted equipment shelf assembly consisting of a horizontal platform with 1/2" raised front lip, two support arms and perforated steel removable equipment cover with lock and key assembly. Finish: Baked epoxy hybrid.

FINISH OPTIONS

Black

White

Order as: AS11x12/ COVER

Order as: AS11x12/ COVER/ W

INTENDED USE

Indoor, mounted perpendicular to wall surface and parallel to floor. Tamper resistant applications only; does not protect from water, dust or foreign objects. Static load as noted in specifications.

SPECIFICATIONS

Static Load Capacity	AS11X12 - 40 pounds*
----------------------	----------------------

*SAFETY WARNING! It is the responsibility of the Contractor and the AHJ to determine fastener type and method based on static load, mounting structure and local building codes.

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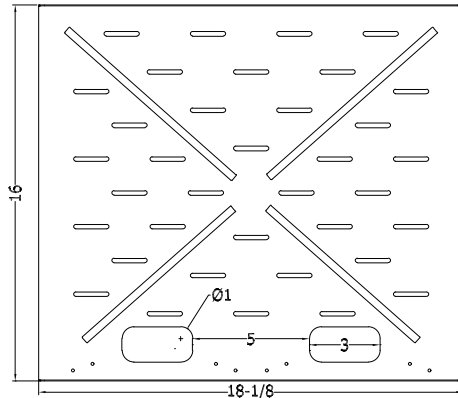
AS18X16

Wall Mount Equipment Shelf, Black

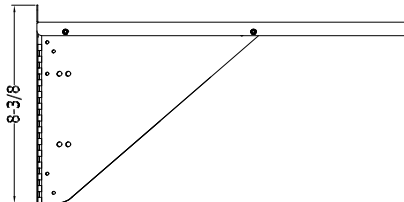
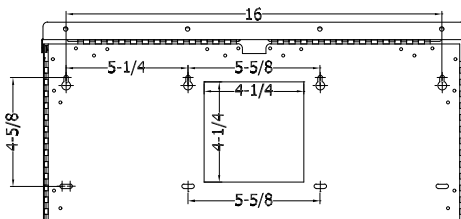
AS18X16/ W

Wall Mount Equipment Shelf, White

0701 - WALL MOUNT EQUIPMENT SHELVES



AS18X16 Shown



GENERAL DESCRIPTION

The Quam AS18X16/x is a steel, wall mounted equipment shelf assembly consisting of a horizontal platform with 1/2" raised front lip, embossed "X" frame reinforcement ribs and two support arms. Finish: Baked epoxy hybrid.

FINISH OPTIONS

Black	Order as: AS18x16
White	Order as: AS18x16/ W

INTENDED USE

Indoor, mounted perpendicular to wall surface and parallel to floor. Static load as noted in specifications.

SPECIFICATIONS

Static Load Capacity	AS18X16- 40 pounds*
----------------------	---------------------

*SAFETY WARNING! It is the responsibility of the Contractor and the AHJ to determine fastener type and method based on static load, mounting structure and local building codes.

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

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TAS18X16_09NO10

SHELVES

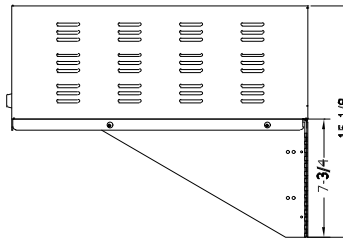
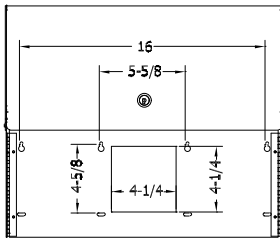
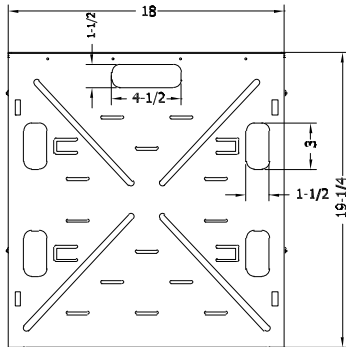
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Quam

AS19X16/COVER Wall Mount Equipment Shelf And lockable Cover Combination, Black AS19X16/COVER/ W Wall Mount Equipment Shelf

0701 - WALL MOUNT EQUIPMENT SHELVES



AS19X16/COVER Shown

GENERAL DESCRIPTION

The Quam AS19X16/COVER/x is a steel, wall mounted equipment shelf assembly consisting of a horizontal perforated platform with "X frame" reinforcement ribs and 1/2" raised front lip, two support arms and perforated steel removable equipment cover with lock and key assembly. Finish: Baked epoxy hybrid.

FINISH OPTIONS

Black Order as: AS19x16
White Order as: AS19X16/ W

INTENDED USE

Indoor, mounted perpendicular to wall surface and parallel to floor. Tamper resistant applications only; does not protect from water, dust or foreign objects. Static load as noted in specifications.

SPECIFICATIONS

Static Load Capacity	AS19X16/COVER - 40 pounds*
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*SAFETY WARNING! It is the responsibility of the Contractor and the AHJ to determine fastener type and method based on static load, mounting structure and local building codes.

Recommended construction sequences, installation instructions and A&E Specifications are available in various formats on the Quam Architects' and Engineers' Resources CD or on the web at: www.quamspeakers.com

Quam-Nichols Company

234 East Marquette Road, Chicago, IL 60637
Phone: (800) NEED NOW Fax: (888) NEED NOW
(800) 633 - 3669 (888) 633 - 3669
E-Mail: neednow@qnc.com www.quamspeakers.com

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SHELVES

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