

RCS8XT

8" Coaxial Torsion-Mount Speaker Package



1

■ FEATURES

- Time-tested Metal Grille with Hardware-free Appearance
- Torsion-mount Assembly for Fast/Easy Installation
- Coaxial Tweeter for Smooth High-Frequency Dispersion
- Dual 70/7/25-volt Xfmr with Spade-lug Taps
- Terminal Block Connection

■ DESCRIPTION

The premium Penton Audio RCS8XT speaker package uses a coaxial, 8" cone loudspeaker with 10-ounce magnet and 1" Mylar dome tweeter complete with a 1/2" moving coil and neodymium magnet. This model is fully assembled including transformer and grille.

Finished in a non-reflecting ceiling white. Its elegant two-part, round, torsion-mount CRS baffle presents an elegant hardware-free appearance and is exceptionally installer friendly.

Its exclusive terminal block and spade-lug taps allow fast connection as well as wattage selection and/or changes. The RCS8XT is complete with a versatile 8-watt, 70.7/25-volt transformer.

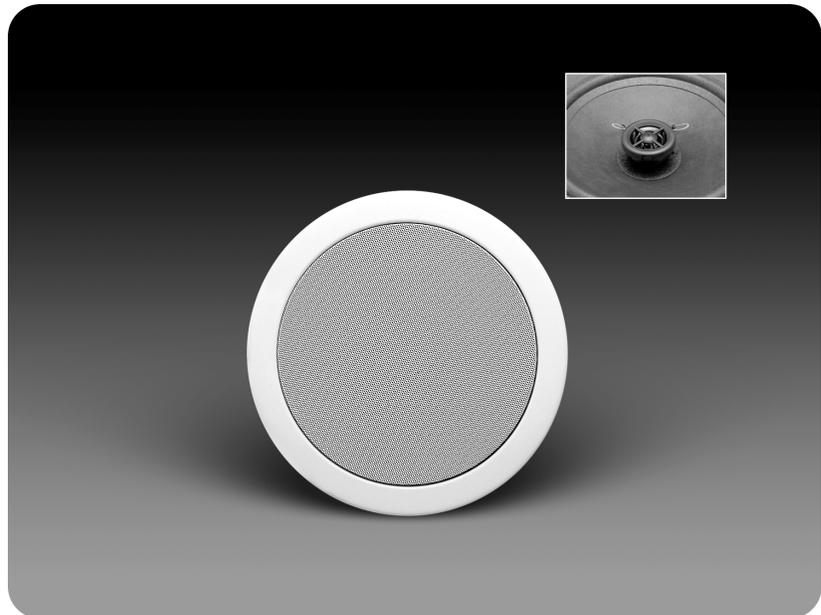
Unit is designed to be quickly mounted in a BBX8 enclosure with BRG8 tile bridge without any hardware. MBK8 mounting bracket provides "blind mounting" without a backbox in a drywall or plaster ceiling.

■ APPLICATIONS

The 8" RCS8XT speaker package is an excellent choice for no compromise in-ceiling audio projects where aesthetics and great sound are a key consideration.

Unit's unusually smooth frequency response, good low frequencies and post-mounted tweeter will enhance the perceived environment in most higher-ceiling commercial applications.

Typical applications include universities, hotel/motels, offices, banks, schools, restaurants, malls and wherever precise, wide-range transmission of audio is a necessity.



■ SPECIFICATIONS

- **CONE SPEAKER SIZE:**
8" (203 mm)
- **TWEETER TYPE:**
1" Mylar Dome with 1/2" Moving Coil and Neodymium Magnet
- **FREQUENCY RESPONSE (SEE FIG 1):**
40-18,000 Hz \pm 6 dB
- **POWER HANDLING (RAW DRIVER):**
20 watts
- **SPL @ 1w 1m:**
94 dB
- **DISPERSION @ 2 kHz (6 dB Down):**
96°
- **DIRECTIVITY Q FACTOR @ 2 kHz:**
6.8
- **CONE DESIGN:**
Coaxial
- **CONE MATERIAL:**
Paper with Rubber Surround
- **MAGNET WEIGHT:**
10 oz
- **TRANSFORMER MAX INSERTION LOSS:**
0.8 dB
- **TRANSFORMER TAP CHANGE:**
Movable Spade Lug
- **CONNECTION**
Via Terminal Block
- **70.7-VOLT TRANSFORMER TAPS:**
8, 4, 2, 1, 0.5
- **70.7-VOLT TRANSFORMER IMPEDANCE:**
625, 1.25K, 2.5K, 5K, 10K
- **25-VOLT TRANSFORMER TAPS:**
8, 4, 2, 1, 0.5
- **25-VOLT TRANSFORMER IMPEDANCE:**
78, 158, 312, 625, 1.25K
- **APPROVALS:**
CE
- **MOUNTING:**
Quick-Release Torsion Springs locked onto baffle
- **BAFFLE MATERIAL:**
Two-part CRS Steel with Steel Mesh
- **FINISH:**
White, Non-reflective, Baked Epoxy
- **SUGGESTED MOUNTING ACCESSORIES:**
BBX8 Steel Backbox
BRG8 Tile Bridge
MBK8 Mounting Bracket
- **DIMENSIONS, INCH (MM):**
11.24 x 2.91 (280 x 74)
- **NET WEIGHT LBS (KGS):**
3.57 (1.62)

RCS8XT

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model RCS8XT or approved equal. Assembly shall be comprised of a coaxial 8" loud-speaker with 10-ounce magnet, 1" Mylar dome tweeter complete with a 1/2" moving coil and neodymium magnet. It shall have a premounted transformer and two-part, non-reflective white baffle with no visible hardware.

Two-part baffle shall be CRS with inner steel mesh grille. Baffle shall be round with torsion-spring mounting.

Loudspeaker shall have wide-angle 96° dispersion at 2000 Hz. Cone shall be a damped, high-compliance type with a smooth extended response over a range of 40-18,000 Hz. Sensitivity shall be a minimum of 94 dB @ 1 watt, 1 meter.

Included shall be a high-quality, factory-mounted, 70.7/25-volt transformer with power taps of 8, 4, 2, 1 and 0.5 watts clearly marked on the assembly. Insertion loss shall not exceed 0.8 dB.

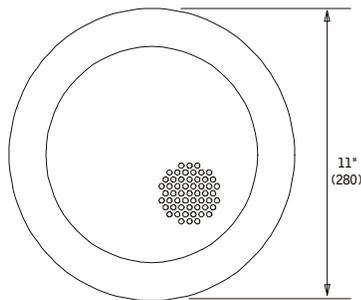


Fig 3: Front View

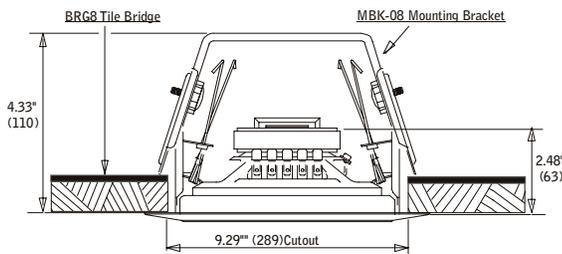


Fig 4: Side View

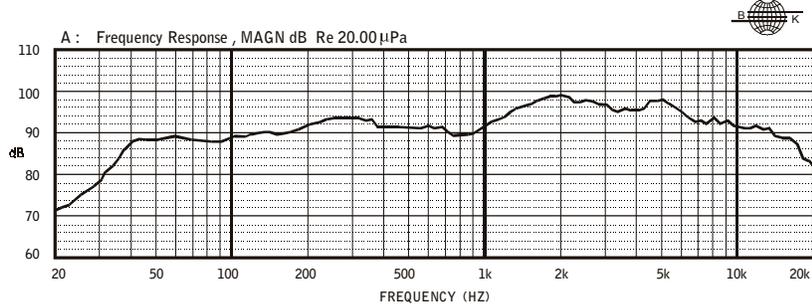


Fig 1: Frequency Response (Measured in Infinite Baffle)

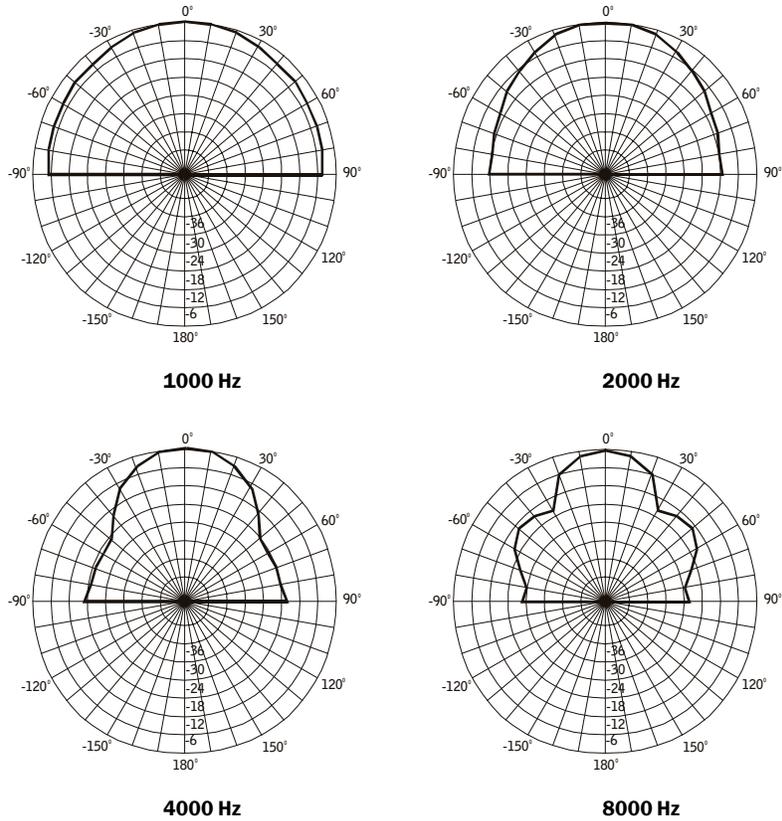


Fig 2: Polar Patterns

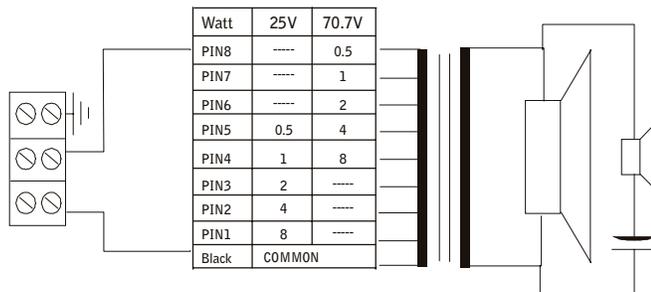


Fig 5: Circuit Diagram

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Specifications subject to change without notice

SS02-1091