

RCS8T

8" Twin-Cone Torsion-Mount Speaker Package



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■ FEATURES

- Time-tested Metal Grille with Hardware-free Appearance
- Torsion-mount Assembly for Fast/Easy Installation
- Twin-Cone for Good High-Frequency Dispersion
- Dual 70.7/25-volt Xfrmr with Spade-lug Taps
- Terminal Block Connection

■ DESCRIPTION

The Penton Audio RCS8T has a round, two-part, torsion-mount, CRS grille baffle with a steel mesh grille to present a stylish hardware-free look. Installer friendly, it installs quickly and efficiently. Its terminal block connection and spade-lug transformer taps allow fast, easy installation and/or wattage changes.

These speaker packages combine the wide dispersion of a 8" twin-cone loud-speaker with aesthetic excellence, installation advantages and a versatile 5-watt, 70.7/25-volt transformer. Economy is enhanced by efficient design combined with a 5-ounce magnet.

The RCS8T Series is finished in a ceiling white with reduced reflectivity.

■ APPLICATION

8" speakers are often the choice for ceiling applications since they provide good bass frequency response and an appropriate coverage angle, thereby more precisely covering listening areas. This combined with speaker efficiency requiring minimum amplifier power, contributes to its popularity.

The 8" RCS speaker packages are excellent choices for value-designed in-ceiling audio projects where aesthetics are a key consideration. Perfect for applications in industry, commercial and institutions, they are designed for offices, banks, schools, restaurants, hotel/motels, malls - wherever precise transmission of audio is required.



■ SPECIFICATIONS

• CONE SPEAKER SIZE: 8" (203 mm)	• 70.7-VOLT TRANSFORMER TAPS: 5, 2, 1, 0.5, 0.25
• FREQUENCY RESPONSE (SEE FIG 1): 60-20,000 Hz \pm 6 dB	• 70.7-VOLT TRANSFORMER IMPEDANCE: 1K, 2.5K, 5K, 10K, 20K
• POWER HANDLING (RAW DRIVER): 15 watts	• 25-VOLT TRANSFORMER TAPS: 5, 2, 1, 0.625, 0.25
• SPL @ 1w 1m: 95 dB	• 25-VOLT TRANSFORMER IMPEDANCE: 125, 312, 625, 1K, 2.5K
• DISPERSION @ 2 kHz: 100°	• APPROVALS: CE
• DIRECTIVITY Q FACTOR @ 2 kHz: 6.9	• MOUNTING: Quick-Release Torsion Springs Locked onto Baffle
• CONE DESIGN: Twin Cone	• BAFFLE MATERIAL: Two-part CRS Steel with Steel Mesh
• CONE MATERIAL: Paper	• FINISH: White, Non-reflective, Baked Epoxy
• MAGNET WEIGHT: 5.34 oz	• SUGGESTED MOUNTING ACCESSORIES: BBX8 Steel Backbox BRG8 Tile Bridge MBK8 Mounting Bracket
• TRANSFORMER MAX INSERTION LOSS: 1.5 dB	• DIMENSIONS, INCH (MM): 11.24 x 2.91 (280 x 74)
• TRANSFORMER TAP CHANGE: Movable Spade Lug	• NET WEIGHT LBS (KGS): 2.69 (1.22)
• CONNECTION: Via Terminal Block	

RCS8T

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model RCS8T or approved equal. Assembly shall be comprised of an 8" twin-cone loudspeaker, dual-voltage pre-mounted transformer and two-part non-reflecting white baffle having no visible hardware.

Baffle shall be round with torsion-spring mounting. Two-part CRS baffle shall be round with an inner mesh grille. Installation shall be by pre-mounted torsion springs.

Loudspeaker shall have wide-angle 100° dispersion at 2000 Hz. Cone shall be a damped, high-compliance type with a smooth extended response over a range of 60-20,000 Hz. Sensitivity shall be a minimum of 95 dB @ 1 watt, 1 meter.

Included shall be a factory-installed 70.7/25-volt transformer with power taps of 5, 2, 1, 0.5 and 0.25 watts clearly marked on the assembly. Insertion loss shall not exceed 1.5 dB.

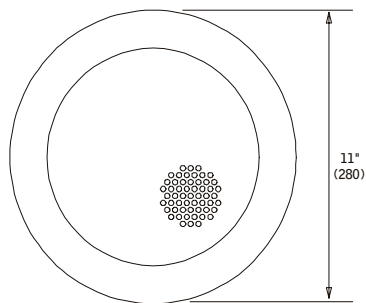


Fig 3: Front View

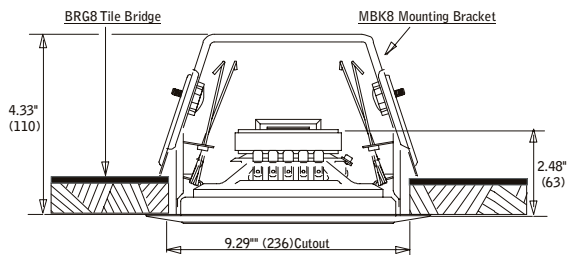


Fig 4: Side View

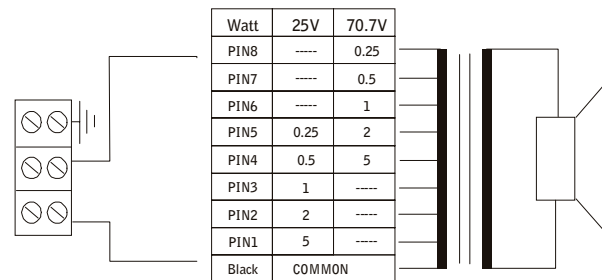


Fig 5: Circuit Diagram

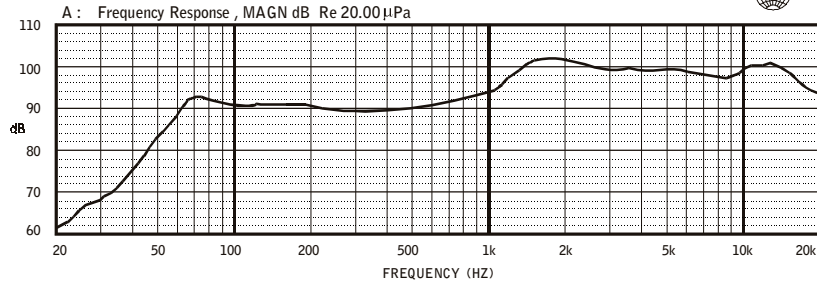


Fig 1: Frequency Response (Measured in Infinite Baffle)

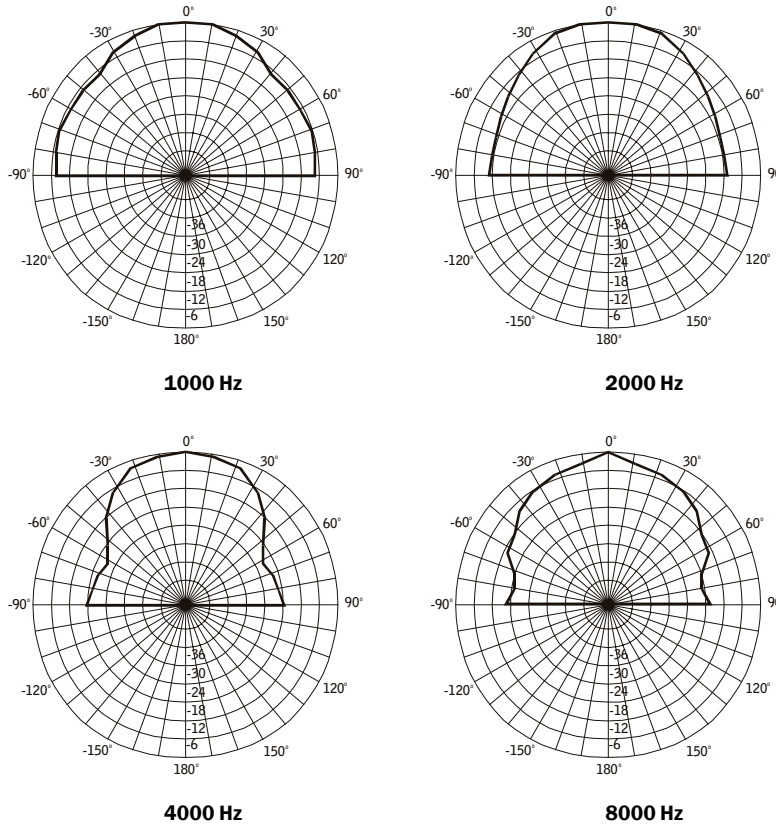


Fig 2: Polar Patterns

