RCS6XT

6” Coaxial Torsion-Mount Speaker Package

**Features**
- Hardware-free Metal Grille for Prestige Appearance
- Terminal Block Connection
- Torsion-mount Assembly for Fast/Easy Installation
- Coaxial for Smooth High-Frequency Dispersion
- Dual 70.7/25-volt Xfrmr with Spade-lug Taps

**Description**
Aesthetic excellence, a robust 10-ounce magnet and a superb 1” Mylar dome tweeter complete with a 1/2” moving coil and neodymium magnet make Penton Audio’s RCS6XT a premium speaker package. Unit combines the wide dispersion associated with 6” loudspeakers with torsion-spring installation advantages and a versatile 8-watt, 70.7/25-volt transformer.

This speaker package has a two-part, torsion-mount, CRS grille baffle with a steel mesh grille to present a stylish hardware-free look. Its terminal block connection and spade-lug transformer taps combined with torsion properties allow quick and easy installation and/or wattage changes.

The popular round speaker package is finished in non-reflecting ceiling white.

**Application**
6” speakers are a fine tool for the sound contractor and audio designer. When ceiling heights don’t warrant the use of an 8” speaker, a 6” loudspeaker will typically provide better coverage at less cost but with significantly more bass than a 5”.

The 6” RCS speaker package is an fine choice for value-designed in-ceiling audio projects. The speakers are designed for commercial, industrial and institutional applications including offices, banks, schools, restaurants, hotel/motels, malls - wherever precise transmission of audio is required.

**Specifications**
- **Cone Speaker Size:**
  6-1/2” (165 mm)
- **Frequency Response (See Fig 1):**
  60-18,000 Hz ± 6 dB
- **Power Handling (Raw Driver):**
  20 watts
- **SPL @ 1w 1m:**
  92 dB
- **Dispersion @ 2 kHz (-6 dB):**
  120°
- **Directivity Q Factor @ 2 kHz:**
  5.1
- **Cone Design:**
  Coaxial
- **Tweeter Type:**
  1” Mylar Dome with 1/2” Moving Coil and Neodymium Magnet
- **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:**
  BBX6 Steel Backbox
  BRG6 Tile Bridge
  MBK6 Mounting Bracket
- **Dimensions, Inch (mm):**
  9.41 x 1.97 (239 x 50)
- **Net Weight Lbs (Kgs):**
  2.29 (1.04)
**RCS6XT**

**ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:**

Unit shall be Penton Audio USA Model RCS6XT or approved equal. Assembly shall be comprised of a coaxial 6" loudspeaker with 10-ounce magnet and 1" Mylar dome tweeter complete with a 1/2" moving coil and neodymium magnet. It shall also have a pre-mounted 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 120° dispersion at 2000 Hz. Cone shall be a damped, high-compliance type with a smooth extended response over a range of 60-18,000 Hz. Sensitivity shall be a minimum of 92 dB @ 1 watt, 1 meter.

Included shall be a 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.

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*Fig 1: Frequency Response (Measured in Infinite Baffle)*

*Fig 2: Polar Patterns*

*Fig 3: Front View*

*Fig 4: Side View*

*Fig 5: Circuit Diagram*