

# RCS6T

## 6" Twin-Cone Torsion-Mount Speaker Package



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### ■ FEATURES

- Fashionable 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 RCS6T speaker package is very attractive, yet offers unusual installation advantages. Its hardware-free look is courtesy of a two-part, torsion-mount, steel mesh grille. Wide dispersion is provided by a 6" twin-cone, 10-watt loudspeaker. Also included in this speaker package is a versatile 5-watt, 70.7/25-volt transformer.

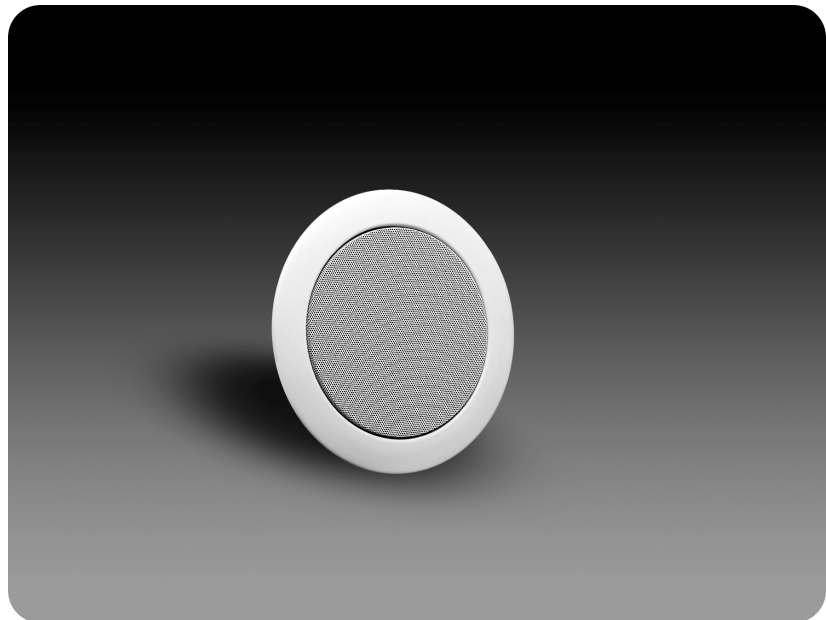
Besides torsion advantages, installation is speeded by its terminal block connection and spade-lug transformer taps. Typical mounting is made without hardware using the optional BRG6 tile bridge and BBX6 steel backbox. The MBK6 mounting bracket is also available to mount speaker in "blind-mount" applications.

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

### ■ APPLICATION

Because 8" speakers often cost less, they are used even when ceiling heights do not dictate their use. However, the wider dispersion and lower cost of the 6" Penton family allow the systems contractor to take advantage of the wide-coverage angle inherent in a 5" speaker and low-frequency response associated with an 8".

The 6" RCS speaker package is an excellent 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 needed.



### ■ SPECIFICATIONS

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|---|--|
| <ul style="list-style-type: none"><li>• <b>CONE SPEAKER SIZE:</b><br/>6-1/2" (165 mm)</li></ul>                                 | <ul style="list-style-type: none"><li>• <b>70.7-VOLT TRANSFORMER TAPS:</b><br/>5, 2, 1, 0.5, 0.25</li></ul>  |
| <ul style="list-style-type: none"><li>• <b>FREQUENCY RESPONSE (SEE FIG 1):</b><br/>85-20,000 Hz <math>\pm</math> 6 dB</li></ul> | <ul style="list-style-type: none"><li>• <b>70.7-VOLT TRANSFORMER IMPEDANCE:</b><br/>1K, 2.5K, 5K, 10K, 20K</li></ul>   |
| <ul style="list-style-type: none"><li>• <b>POWER HANDLING (RAW DRIVER):</b><br/>10 watts</li></ul>                              | <ul style="list-style-type: none"><li>• <b>25-VOLT TRANSFORMER TAPS:</b><br/>5, 2, 1, 0.625, 0.25</li></ul>  |
| <ul style="list-style-type: none"><li>• <b>SPL @ 1w 1m:</b><br/>94 dB</li></ul>   | <ul style="list-style-type: none"><li>• <b>25-VOLT TRANSFORMER IMPEDANCE:</b><br/>125, 312, 625, 1K, 2.5K</li></ul>  |
| <ul style="list-style-type: none"><li>• <b>DISPERSION @ 2 kHz (5 dB Down):</b><br/>90°</li></ul>                                | <ul style="list-style-type: none"><li>• <b>APPROVALS:</b><br/>CE</li></ul>   |
| <ul style="list-style-type: none"><li>• <b>DIRECTIVITY Q FACTOR @ 2 kHz:</b><br/>7.2</li></ul>                                  | <ul style="list-style-type: none"><li>• <b>MOUNTING:</b><br/>Quick-Release Torsion Springs<br/>Locked onto Baffle</li></ul>                                    |
| <ul style="list-style-type: none"><li>• <b>CONE DESIGN:</b><br/>Twin Cone</li></ul>   | <ul style="list-style-type: none"><li>• <b>BAFFLE MATERIAL:</b><br/>Two-part CRS Steel with Steel Mesh</li></ul>   |
| <ul style="list-style-type: none"><li>• <b>CONE MATERIAL:</b><br/>Paper</li></ul>   | <ul style="list-style-type: none"><li>• <b>FINISH:</b><br/>White, Non-reflective, Baked Epoxy</li></ul>  |
| <ul style="list-style-type: none"><li>• <b>MAGNET WEIGHT:</b><br/>5.34 oz</li></ul>   | <ul style="list-style-type: none"><li>• <b>SUGGESTED MOUNTING ACCESSORIES:</b><br/>BBX6 Steel Backbox<br/>BRG6 Tile Bridge<br/>MBK6 Mounting Bracket</li></ul> |
| <ul style="list-style-type: none"><li>• <b>TRANSFORMER MAX INSERTION LOSS:</b><br/>1.5 dB</li></ul>                             | <ul style="list-style-type: none"><li>• <b>DIMENSIONS, INCH (MM):</b><br/>9.41 x 2.32 (239 x 59)</li></ul>   |
| <ul style="list-style-type: none"><li>• <b>TRANSFORMER TAP CHANGE:</b><br/>Movable Spade Lug</li></ul>                          | <ul style="list-style-type: none"><li>• <b>NET WEIGHT LBS (KGS):</b><br/>1.96 (0.89)</li></ul>   |
| <ul style="list-style-type: none"><li>• <b>CONNECTION:</b><br/>Via Terminal Block</li></ul>                                     |  |

# RCS6T

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model RCS6T or approved equal. Assembly shall be comprised of a 6" twin-cone loudspeaker, dual-voltage premounted transformer and two-part white baffle having no visible hardware.

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

Loudspeaker shall have wide-angle 90° dispersion at 2000 Hz. Cone shall be damped, high-compliance type with a smooth extended response over a range of 85-20,000 Hz. Sensitivity shall be a minimum of 94 dB @ 1 watt, 1 meter.

Included shall be a factory-mounted 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.

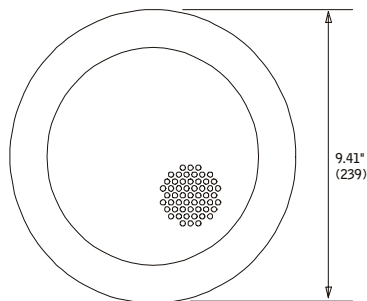


Fig 3: Front View

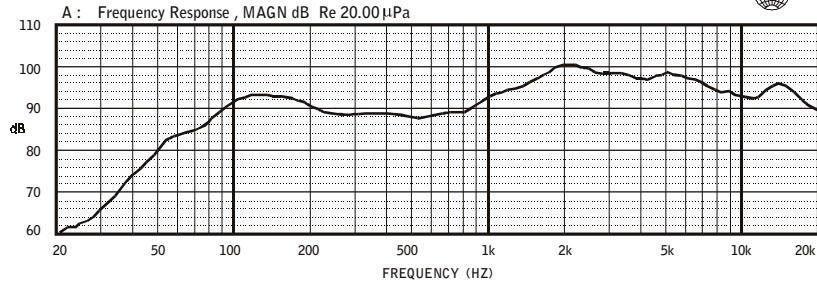


Fig 1: Frequency Response (Measured in Infinite Baffle)

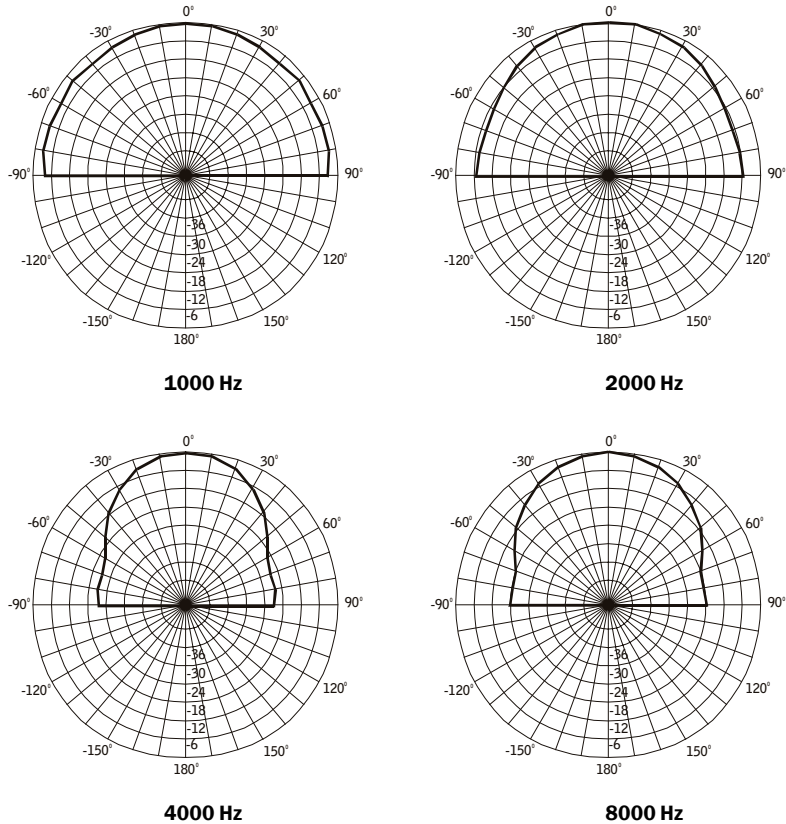


Fig 2: Polar Patterns

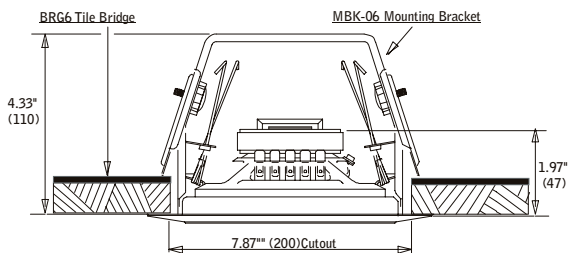


Fig 4: Side View

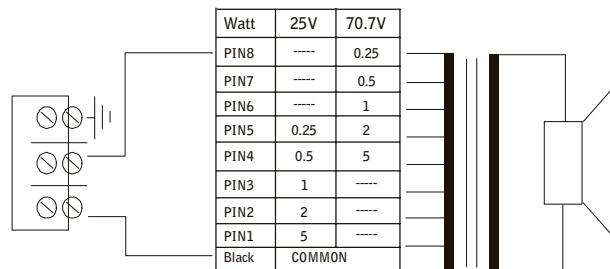


Fig 5: Circuit Diagram

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Specifications subject to change without notice

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