

PBC6T

6" Surface-mount Speaker Packages with Optional Volume Controls



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■ FEATURES

- Elegant Cabinet Styling Protected by Steel Mesh
- Horizontal or Vertical Mount
- Ported to Enhance Bass
- Horizontal or Vertical Mount
- Dual 70.7/25-volt

■ DESCRIPTION

Classy is a great word to describe the Penton Audio PBC Series surface-mount speaker packages. Not only decorative, but sturdy, the curved ABS housings are equipped with dual-voltage (70.7/25) transformers and 6" cone loudspeakers which exhibit wider coverage angles than typical 8" cones.

The white ABS molded cabinets are loaded with customer-centric features including UV inhibitors, optional volume control, bass port, mounting hole covers, transformer tap selection via movable spade lugs and connection via a terminal block.

■ APPLICATION

Offering the first serious alternative to conventional wooden wall baffles, the PBC Series can be mounted in classrooms, malls, atriums, church fellowship halls, meeting rooms and other venues where recessed speaker systems are not practical.

The PBC cabinet mounts easily with provided hole cover caps and customer supplied hardware. In the vertical orientation mounting uses the keyhole bracket. Horizontal attachment is made using the two front mounting holes. For audio connection, mount over electrical box or by allowing cable entry through either of 2 provided cutouts.



■ SPECIFICATIONS

- **SPEAKER CONE SIZE:**
6-1/2" (152 mm)

- **SPEAKER TYPE**
PBC6T: Twin Cone

- **FREQUENCY RESPONSE (SEE FIG 1)**
PBC6T: 110-20,000 Hz \pm 6 dB

- **POWER HANDLING (RAW DRIVER)**
PBC6T: 10 watts

- **SPL @ 1w 1m**
PBC6T : 94 dB

- **DISPERSION @ 2 kHz (6 dB Down)**
PBC6T: 115°

- **DIRECTIVITY Q FACTOR @ 2 kHz:**
PBC6T: 7.1

- **CONE MATERIAL**
PBC6T: Paper

- **MAGNET WEIGHT**
PBC6T: 5.34 oz

- **TRANSFORMER TAP CHANGE:**
Movable Spade Lug

- **CONNECTION:**
Terminal Block

- **TRANSFORMER MAX INSERTION LOSS**
PBC6T: 1.5 dB

- **70.7-VOLT TRANSFORMER TAPS**
PBC6T: 5, 2, 1, 0.5, 0.25

- **70.7-VOLT TRANSFORMER IMPEDANCE**
PBC6T: 1K, 2.5K, 5K, 10K, 20K

- **25-VOLT TRANSFORMER TAPS:**
PBC6T: 5, 2, 1, 0.625, 0.25

- **25-VOLT TRANSFORMER IMPEDANCE**
PBC6T: 125, 312, 625, 1K, 2.5K

- **APPROVALS:**
CE

- **SUPPLIED MATCHING ACCESSORIES:**
2 ea. Caps for Recessed Holes; Volume-control Knob

- **BAFFLE MATERIAL:**
Molded ABS housing with UV Inhibitor and Steel Mesh Grille

- **FINISH:**
Non-reflective White

- **DIMENSIONS, INCH (MM):**
13 x 9.45 x 3.54 (330 x 240 x 90)

- **NET WEIGHT LBS (KGS)**
PBC6T: 1.56 (1.16)

PBC6T

ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model (PBC6T) or approved equal. Assembly shall be comprised of a 6-1/2" loudspeaker, factory-mounted dual-voltage 70.7/25-volt transformer and wall baffle.

Grille shall be aesthetically pleasing, constructed of molded high-impact ABS with UV inhibitors used throughout. Grille screen shall be steel mesh with a baked-on epoxy paint. Entire housing to be finished in matching white.

PBC6T shall have a twin-cone loudspeaker with 5-ounce magnet. Cone shall be treated paper, a damped, high-compliance type with smooth extended response over a range of 110 to 20,000 Hz and 115° dispersion. Sensitivity shall be a minimum of 94 dB. Transformer shall have power taps of 5, 2, 1, 0.5 and 0.25 watts. Insertion loss shall not exceed 1.5 dB.

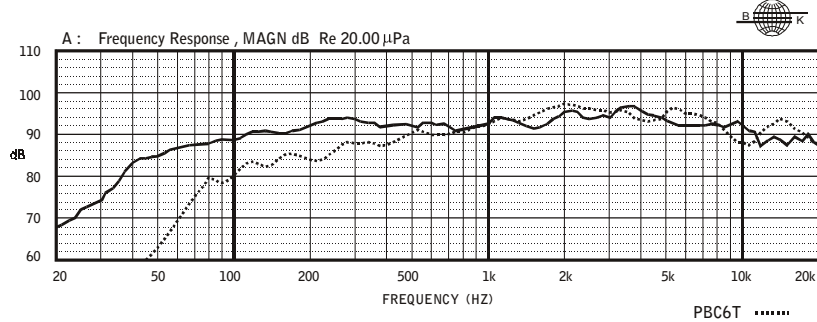


Fig 1: Frequency Response

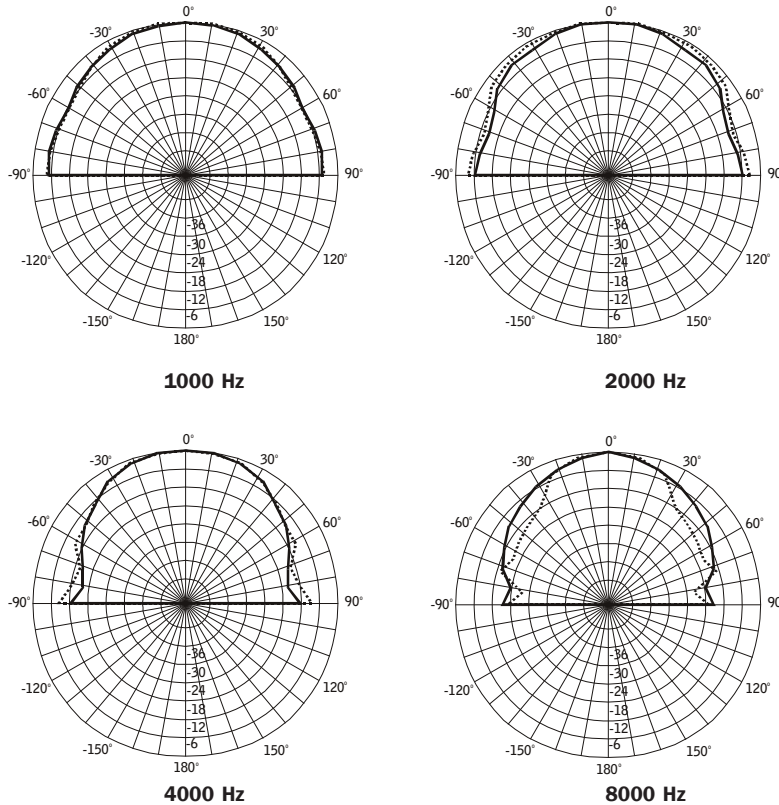


Fig 2: Polar Patterns

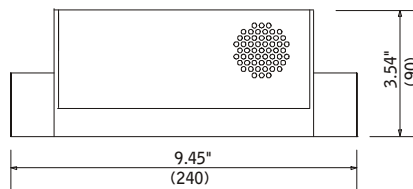


Fig 3: Side View

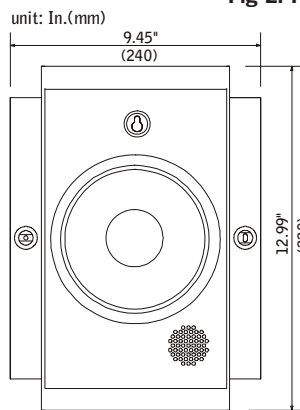


Fig 4: Front View

PBC6T		
Watt	25V	70.7V
PIN8	----	0.25
PIN7	----	0.5
PIN6	----	1
PIN5	0.25	2
PIN4	0.625	5
PIN3	1	----
PIN2	2	----
PIN1	5	----
Black	COM	COM

Fig 5: Wattage Tappings

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