PC-580RVU AM

CEILING MOUNT SPEAKER

The PC-580RVU is designed to fill the need for a high-performance, cost effective ceiling speaker for use in Mass Notification Systems, Voice Evacuation, Emergency Paging, and everyday Paging and Background Music requirements. The PC-580RVU speaker meets UL 2572 (ULC S541, UL 1480 UUMW) (Fire Alarm Signaling) and UL 2043 (use in air handling spaces) standards when using the HY-BC580U Back Can.

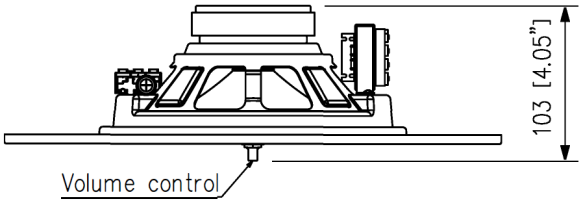
Key features

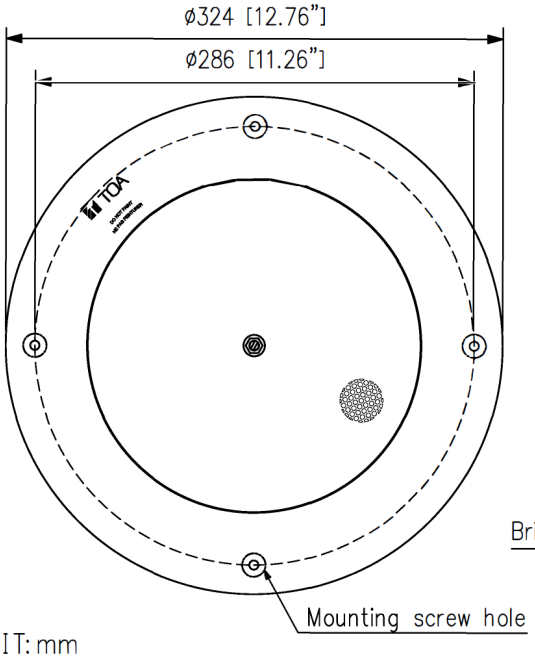
- 8” in-ceiling speaker for high-quality paging applications
- Center-grille volume adjustment potentiometer
- Cost effective design
- 25V & 70V transformer taps up to 5W
- Fits standard ceiling-speaker template
- ULC S541, UL 1480 UUMW and UL 2043 standards
- Unique “monocoque” design provides better structural integrity
- Optional UL-rated HY-BC580U

Specifications

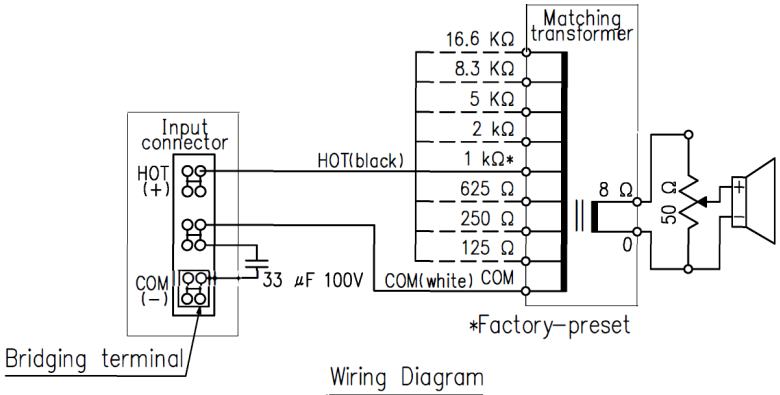
Rated Input	5W (70.7 V line and 25 V line)
Rated Impedance	70.7 V line: 1 kΩ (5 W), 2 kΩ (2.5 W), 5 kΩ (1 W), 8.3 kΩ (0.6 W), 16.6 kΩ (0.3 W) 25 V line: 125 Ω (5 W), 250 Ω (2.5 W), 625 Ω (1 W), 1 kΩ (0.6 W), 2 kΩ (0.3 W)
Sensitivity (1W, 1m)	97 dB (1 W, 1 m)
Frequency Response	50 Hz - 16.5 kHz
Speaker Component	200 mm (8") Dual cone-type
Mounting Hole	ø228.6±3 mm (9" ±0.12")
Speaker Mounting Method	Mounting screw M5 X 38
Connected Cable	Solid wire: ø0.8 - ø1.6 (AWG 20-12)
Connection	Push wire connection (Bridging terminal-2 branch type)
Operating Temperature	-10 ·c to +50 ·c (14 'F to 122 'F)
Finish	Panel: Steel plate, white, paintGrille: Steel plate, white
Dimensions	ø324 x 103(D) mm (12.76" x 4.05")
Weight	1.65 kg (3.64 lbs)
Optional Accessories	HY-BC580UBack can (sold separately)(for other installation): BB-580DMount rail: Q-HY-TB2
Other Feature	UL 1480 UUMW and UL 2043 when used with HY-BC580U

Dimensions





UNIT: mm



Wiring Diagram

Note: Use transformer terminals when changing input impedance.

A&E specifications

The speaker shall be a high-performance, ceiling-mount design featuring a 200 mm (8") dual cone-type loudspeaker engineered for clear, full-range sound reproduction in paging, background music, and emergency notification systems. Designed for both 25 V and 70 V distributed audio applications, it shall feature transformer tap selection via dual push-in bridging terminals, allowing quick adjustment to multiple power settings. For 70.7 V operation, available taps shall be 5 W (1 kΩ), 2.5 W (2 kΩ), 1 W (5 kΩ), 0.6 W (8.3 kΩ), and 0.3 W (16.6 kΩ). For 25 V operation, available taps shall be 5 W (125 Ω), 2.5 W (250 Ω), 1 W (625 Ω), 0.6 W (1 kΩ), and 0.3 W (2 kΩ). The speaker shall provide a volume control on centrally located potentiometer. The speaker shall deliver a sensitivity of 97 dB SPL (1 W / 1 m) and a frequency response from 50 Hz to 16.5 kHz, ensuring articulate speech and natural music playback. It shall operate within a temperature range of -10 °C to +50 °C (14 °F to 122 °F) and accept solid conductor cable from 0.8 mm to 1.6 mm in diameter (AWG 20–12). The speaker shall be certified to UL 1480 UUMW for fire alarm signaling, and to UL 2043 for installation in air-handling spaces when installed with the optional HY-BC580U back can. The housing and grille shall be crafted from durable, white painted steel with a fine mesh grille for a clean architectural finish. Installation shall require a 228.6 ± 3 mm (9" ± 0.12") cut-out, with overall dimensions of Ø324 × 103 mm (12.76" × 4.05") and a weight of 1.65 kg (3.64 lbs). The speaker shall be identified as the TOA model PC-580RVU.