

CEILING MOUNT FIRE DOME SPEAKER

PC-1867F
PC-1867FC



DESCRIPTION

TOA's PC-1867F and PC-1867FC Ceiling Mount Speaker features an iron-made dome that prevents the fire from spreading in the ceiling in case of an emergency situation. The speaker can be easily installed using the speaker mounting spring and the dome can also be easily mounted in the speaker mounting hole in the ceiling panel.

The PC-1867F comes with a push-in connector that permits one-touch cable connection as well as bridging and branch wiring, while the PC-1867FC is provided with a ceramic terminal block of screw type.

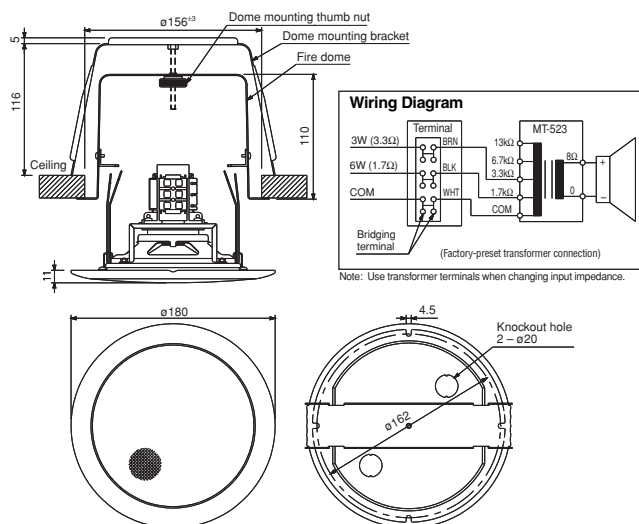
The PC-1867FC complies with the British Standard BS5839 Part 8.

FEATURES

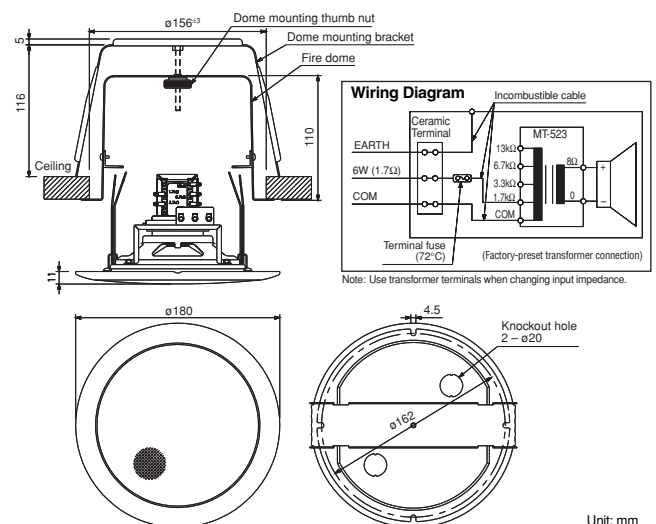
- Flush-mount ceiling type.
- Spring catch system increases installation efficiency.
- Built-in full-range 12cm speaker.
- Rated input: 6W (100V line) or 3W (70V line).
- Push-in terminal connectors simplify wiring (PC-1867F only) and impedance switching (0.8W, 1.5W, 3W and 6W/100V line).
- Wide 100 – 16,000Hz frequency range characteristics.
- The front grille is Round, aluminum frame + aluminum net.

APPEARANCE AND DIMENSIONAL DIAGRAM

PC-1867F



PC-1867FC



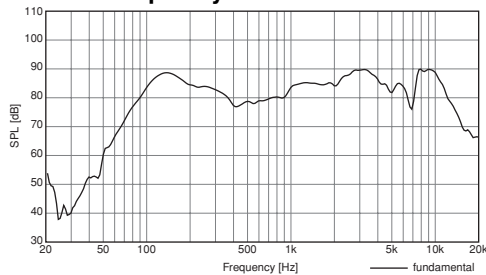
Unit: mm

SPECIFICATIONS

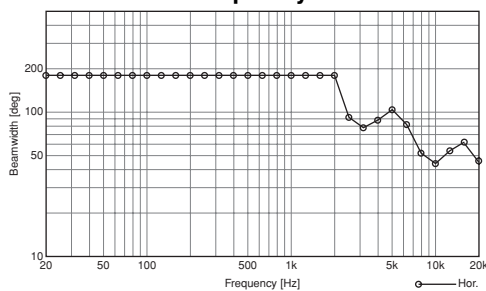
	PC-1867F	PC-1867FC
Rated Input	6 W (for 100 V Line), 3 W (for 70 V Line)	
Rated Impedance	100 V line: 1.7 k Ω (6 W), 3.3 k Ω (3 W) [6.7 k Ω (1.5 W), 13 k Ω (0.8 W): Internal wiring must be changed] 70 V line: 1.7 k Ω (3 W), 3.3 k Ω (1.5 W) [6.7 k Ω (0.8 W), 13 k Ω (0.4 W): Internal wiring must be changed]	100 V line: 1.7 k Ω (6 W) [3.3 k Ω (3 W), 6.7 k Ω (1.5 W), 13 k Ω (0.8 W): Internal wiring must be changed] 70 V line: 1.7 k Ω (3 W) [3.3 k Ω (1.5 W), 6.7 k Ω (0.8 W), 13 k Ω (0.4 W): Internal wiring must be changed]
Sensitivity	90 dB (1 m, 1 W) 330 – 3,300 Hz Pink noise	
Frequency Response	100 – 16,000 Hz (without fire dome)	
Speaker Component	12 cm cone-type speaker	
Standard	—	In compliance with the British Standard BS 5839-8: 1998 [10.3 Protection of Loudspeakers]
Dimensions for Fixing Hole	$\phi 156^{+3}$ (mounting hole) x 30 (maximum ceiling thickness) mm	
Speaker Mounting Method	Spring catch	
Applicable Cables	600 V Vinyl-insulated cable (IV wire or HIV wire) Solid copper wire: $\phi 0.8$ – $\phi 1.2$ mm 7-core twisted copper wire: 0.75 – 1.25 mm ²	600 V Vinyl-insulated cable (IV wire or HIV wire) Solid copper wire: 1 \times max. $\phi 3.0$ mm or 2 \times max. $\phi 1.5$ mm
Connection	Push-in connector (Bridging terminal-2 branch type)	Screw connector (ceramic terminal)
Finish	Baffle: Aluminum, off-white (RAL 9010 or equivalent color), paint Grille: Aluminum net, off-white (RAL 9010 or equivalent color), paint Dome mounting bracket: Steel plate, bichromate plating Fire dome: Steel plate, black, painting	
Dimensions	$\phi 180 \times 11$ (exposed section) + 110 (D) mm	
Weight	1.3 kg (bracket, fire dome included)	
Accessory	Rubber grommet...2, Paper pattern...1	

CHARACTERISTIC DIAGRAMS

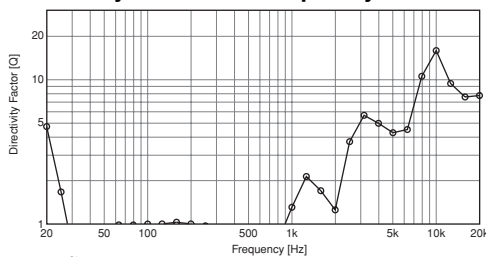
SPL vs. Frequency



Beamwidth vs. Frequency



Directivity Factor vs. Frequency



Polar Response

