





- Distinguished by transparent, high resolution sound
- designed to withstand long term high stress operation with high peak factor
- ideal for touring sound, stage monitors, high performance installed and portable sound systems
- proprietary aerospace grade Aluminum alloy diaphragm with highest tensile strength to weight ratio guarantees long term fatigue resistance, extended HF and accurate signal peak reproduction
- diaphragm with high damping eliminates ringing typical for other metal domes
- heat stabilized polymer surround ensures low distortion at high SPL and long term performance stability
- high performance 44.5mm (1.7") edgewound ribbon wire voice coil with advanced adhesives for maximum reliability
- copper demodulation ring inside magnetic gap
- extended to 25 kHz frequency range
- 100 W continuous program power
- · self-aligning diaphragm assembly

SPECIFICATIONS

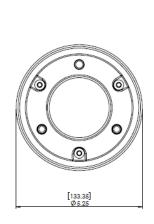
Nominal exit diameter	1"/25.4 mm
Rated impedance	8/16 Ω
Power handling ¹	50 W
Continuous program power ²	100 W
Sensitivity ³	109.5 dB
Rated frequency range⁴	1.0 kHz – 25 kHz
Recommended min. XO frequency ⁴	1.2 kHz
Re	6.2/11.5 Ω
Minimum impedance	7.6/ 14.0 Ω
Diaphragm material	structural aluminum alloy
Voice coil diameter	44.5 mm (1.75")
Voice coil winding	edge-wound ribbon
Voice coil wire	copper-clad aluminum
Voice coil former	high temperature polyimide
Magnet	ferrite ring
Exit angle⁵	11.4°

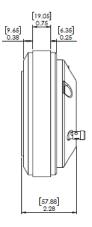
Mounting and mechanical parameters

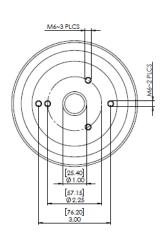
Mounting	2 x ¼"-20 holes on Ø3.0"(76.2mm)@180° 3x1/4"-20 holes on Ø2.25 (57 mm)@120°
Overall diameter	133.4 mm (5.25 in)
Overall depth	56.0 mm (2.2 in)
Net weight	2.9 kg (6.4 lbs.)

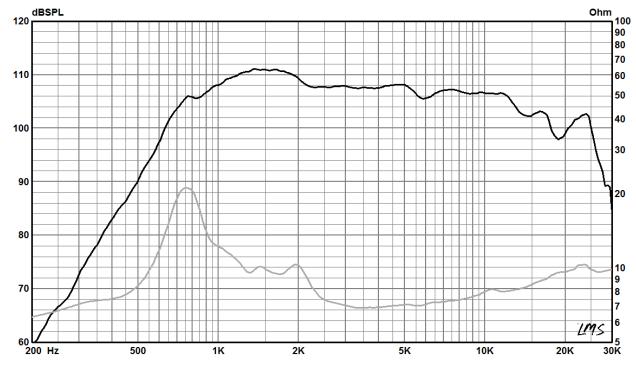
Optional accessories

Replacement diaphragm assembly 1450PB – binding posts









Frequency response and impedance of 475PB-8 on specified horn, free field ³.

Specifications notes

- 1. As per AES2-1984 Rev.2003. Radian Audio tests power using voltage levels calculated based on rated impedance, according to AES and IEC 60268-5 standards, as better reflecting real life operating conditions. To be distinguished from power specification approach that uses minimum impedance, resulting in inflated power rating. Tested with 24dB/oct@1.5kHz slope XO.
- 2. Continuous program power is defined at 3dB higher than AES power and reflects power handling capacity for typical music and cinema content reproduction.
- 3. Driver mounted on horn with 90°x40° nominal coverage and following dimensions: 254 mm (10") mouth width, 125mm (5") mouth height, 152mm (6") horn depth. Measured at 1W/1m in simulated free field conditions as per AES 2-2012 and IEC 60268-5 (Ed.3.1 2007-09). Sensitivity is calculated based on SPL frequency response at 1W/1m, averaged in 1.2 kHz 5 kHz band.
- 4. Specified in accordance with IEC 60268-5 (Ed. 3.1 2007-09). Defines minimum recommended operating frequency band for typical application with 24 dB/Oct. high pass filter. If lower filter slope rate is used, a higher XO point is recommended. Higher XO frequency is recommended, if higher max SPL is required.
- 5. Total flare angle of conical exit. The angle should be considered for proper coupling with a waveguide/horn. The waveguide/horn throat expansion angle and shape should provide smooth continuity of mated surfaces for best results. The driver exit angle and its integration with a horn will also affect dispersion at very high frequencies.