

745NeoPB-8/16 1.4" exit HF driver



SPECIFICATIONS

Nominal exit diameter	1.4"/35.6 mm
Rated impedance	8/16 Ω
Power handling ¹	110 W
Continuous program power ²	220 W
Sensitivity ³	111 dB
Rated frequency range ⁴	500 Hz –20 kHz
Recommended min. XO frequency ⁴	800 Hz
Re	6.2/12.4 Ω
Minimum impedance	7.8/ 14.3 Ω
Diaphragm material	Structural Aluminum alloy
Voice coil diameter	76.2 mm (3")
Voice coil winding	Edge-wound ribbon
Voice coil wire	Copper-clad Aluminum
Voice coil former	High temperature polyimide
Magnet	Neodymium ring
Exit angle ⁵	10°

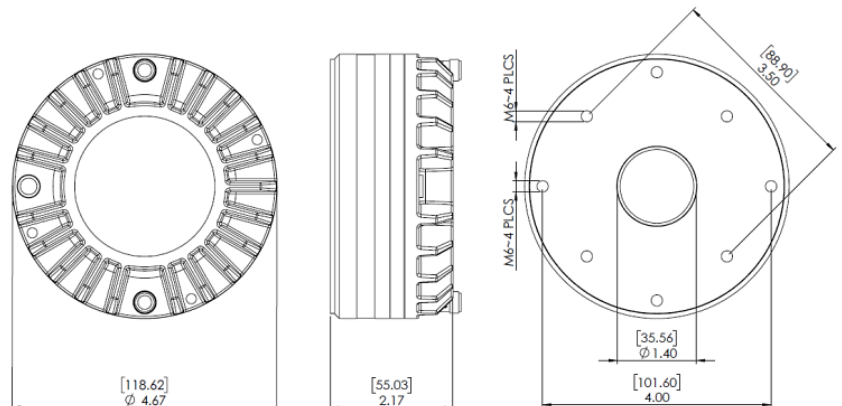
Mounting and mechanical parameters

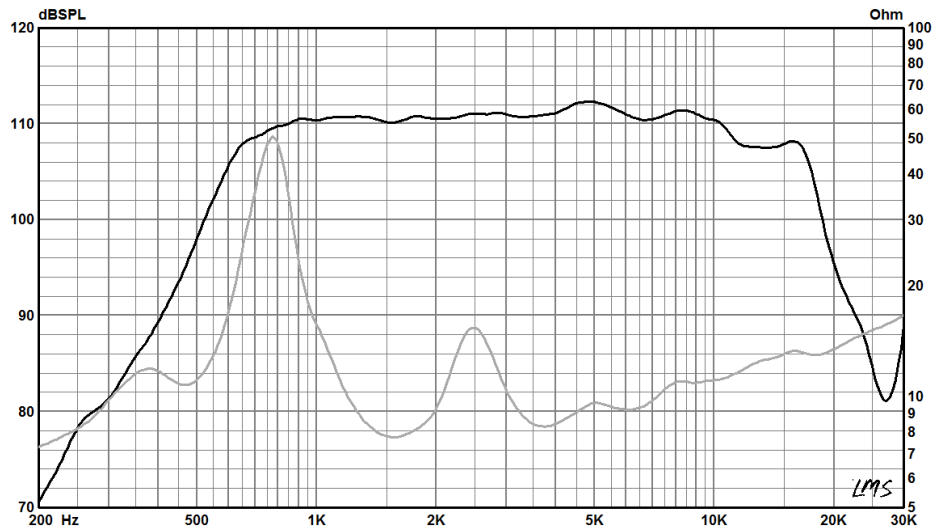
Mounting	4 x M6 on \varnothing 101.6mm (4") ; 4 x M6 on @88.9mm(3.5")
Overall diameter	118.6 mm (4.67 in)
Overall depth	55.0 mm (2.17 in)
Net weight	2.09 kg (4.6 lbs.)

Optional accessories

Replacement diaphragm assembly	1760PB-8/16 - binding posts 1760ZT-8/16 - spade lug terminals
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- Distinguished by transparent, high resolution sound, while effectively minimizing typical compression driver distortion. Exemplary flat response.
- withstands long term extreme stress operation with high peak factor
- compact design, ideal for touring line arrays and high performance sound systems where light weight and very high SPL is required.
- proprietary processed and hardened aerospace grade Aluminum alloy diaphragm with highest tensile strength to weight ratio guarantees long term fatigue resistance, extended HF and accurate signal peak reproduction
- heat stabilized polymer surround ensures low distortion at high SPL and long term performance stability
- high performance 76.3mm (3") edge-wound ribbon wire voice coil with advanced adhesives for maximum reliability
- 220 W continuous program power
- self-aligning diaphragm assembly facilitates service in the field





Frequency response and impedance of
745NeoPB-8 on specified horn, free field ³.

Specifications notes

1. 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.
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 120°x40° nominal coverage and following dimensions: 356 mm (14") mouth width, 152mm (6") mouth height, 165mm (6.5") 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 1.0 kHz – 5 kHz band.
4. Specified in accordance with IEC 60268-5 (Ed. 3.1 2007-09). Defines 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.