

4WF25 4" LF driver



- Very versatile high performance midwoofer for cost effective pro systems
- compact and light weight, ideal for installed systems and line arrays
- 25 mm voice coil
- 80 W continuous program power
- FEM optimized magnet system with symmetric and linear magnetic field
- heavy duty cast aluminum chassis
- precisely optimized suspension symmetry ensures performance linearity and long term stability
- shorting ring minimizes intermodulation distortion
- cone with waterproof polymer coating
- dual terminals for convenient connection in line arrays
- 4,12,16 ohms impedance options available for custom orders

SPECIFICATIONS

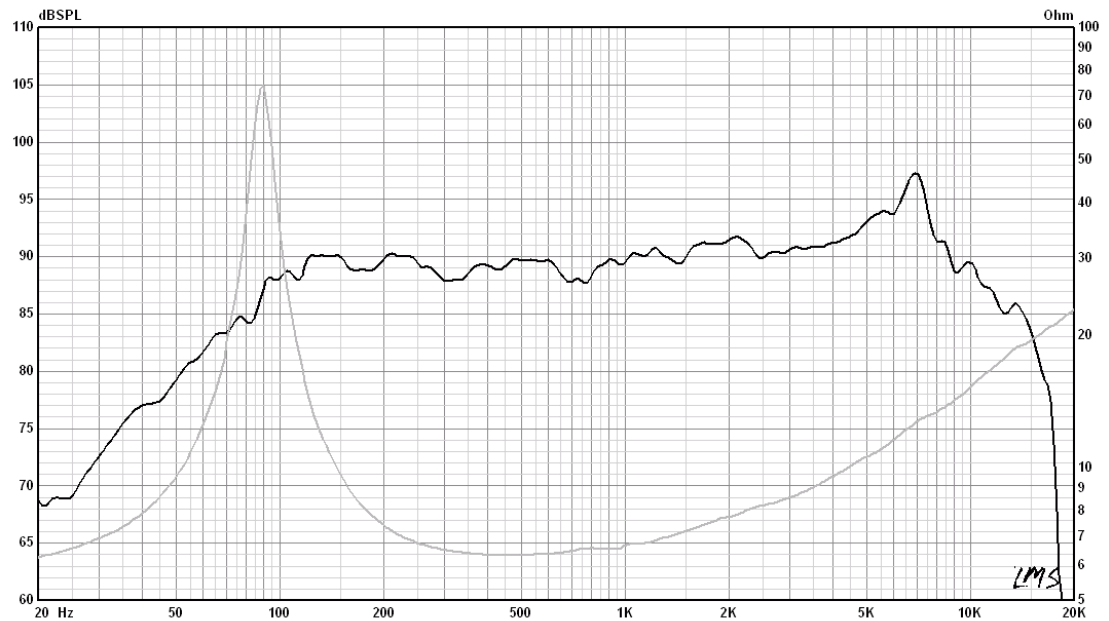
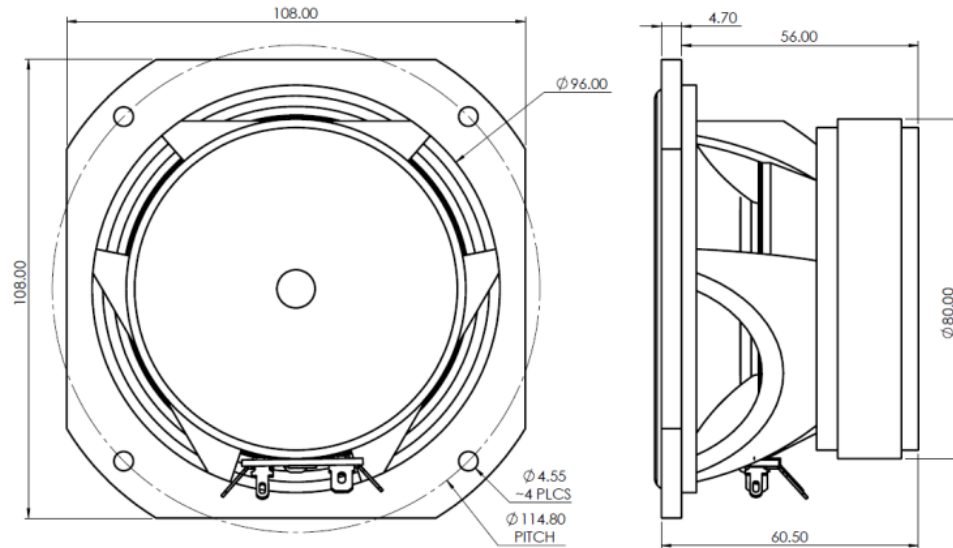
Nominal diameter	4"/100 mm
Rated impedance	8 Ω
Power handling ¹	40 W
Continuous program power ²	80 W
Sensitivity ³	90 dB
Rated frequency range ⁴	50 Hz – 16000 Hz
Recommended min-max XO frequencies	80 Hz – 5000 Hz
Minimum impedance	6.3 Ω
Cone material	paper/Kevlar composite with waterproof coating
Voice coil diameter	25 mm (1.0")
Voice coil winding	round
Voice coil wire	copper clad aluminum
Voice coil former	Kapton
Voice coil displacement limit	10 mm
Voice coil winding height	10 mm
Magnetic gap height	5 mm
Suspension	rubber half roll
Magnet	ferrite
Frame	cast aluminum
Recommended enclosure volume	1-4 L (0.035-0.15 ft ³)

Thiele-Small parameters

Fs	92 Hz
Sd	61 cm ²
Re	5.7 Ω
Qms	10.6
Qes	0.716
Qts	0.671
Vas	2.85 dm ³ (L)
Cms	0.545 mm/N
Mms	5.42 g
BL	5.00 N/A
Le	0.26 mH
Xmax ⁶	3.75 mm

Mounting and mechanical parameters

Frame square	108x108 mm (4.25x4.25 in)
Bolt circle diameter	114.8 mm (4.52 in)
Baffle cut-out diameter	97 mm (3.82 in)
Overall depth	61 mm (2.4 in)
Flange thickness	4.7 mm (0.185 in)
Net weight	0.83 kg (1.83 lbs.)
Shipping weight	0.90 kg (1.98 lbs.)



Frequency response and impedance curves of 4WF25 driver in IEC baffle, impedance free field.

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.
2. Continuous program power is defined at 3dB higher than AES power and reflects power handling capacity for typical live music and cinema content reproduction.
3. Driver mounted in specified enclosure or baffle, measured at 1m, at 2.83V in simulated free field conditions as per AES 2-2012 and IEC 60268-5 (Ed.3.1 2007-09). Sensitivity is calculated for 1W/1m conditions as an average SPL in 100Hz-4000 Hz frequency band.
4. Specified in accordance with IEC 60268-5 (Ed. 3.1 2007-09). Defines widest recommended operating frequency band for a typical application.
5. Xmax is defined as $X_{max} = (H_{vc} - H_{gap}) / 2 + H_{gap} / 4$ and based on actual BL linearity data measured for each driver by laser based analyser with 82% BL reduction limit from normalized maximum at voice coil rest position. Hvc – voice coil height, Hgap – active magnetic gap height.