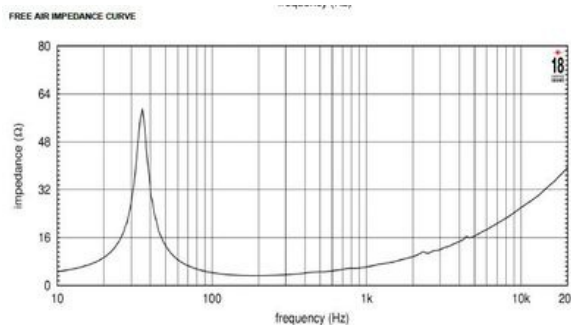
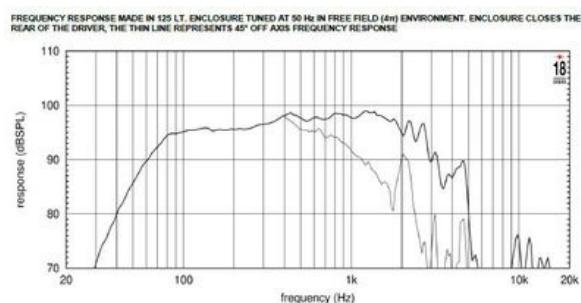




- 97 dB SPL 1W/ 1m average sensitivity
- 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
- 1200 W program power handling
- Long excursion, linear travel suspension design
- Weather protected cone and plates for outdoor usage
- Generous low frequency output make it suitable for 2-way systems and subwoofer applications

The 15W750 low frequency transducer meets the specific market demand for a loudspeaker which combines good linearity and efficiency with high power handling capabilities, containing a 75 mm Ø aluminum voice coil. Although primarily intended for use in tuned reflex enclosures, the versatile characteristics of the 15W750 render it suitable for a wide variety of enclosure types, particularly as a subwoofer or as a LF driver in 2 systems. When used in a 2-way system, we recommend a 1.4" or 2" exit compression driver in order to obtain the best sound quality. The deep profile curvilinear paper cone has been made using a special high strength wood pulp and designed to achieve the best possible linearity within its intended frequency range and to control bell-mode resonances around the cone circumference. The cone is carried by an unusually deep profile, triple-roll suspension formed of a linen-like material which is more resistant to aging and fatigue than the traditional cotton-based materials used in conventional surrounds. The 75 mm Ø aluminum voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglass former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly with a reduced tendency for eccentric behavior when driven hard. The magnetic structure has been optimized using our in-house FEA CAD resource that has maximized the flux density in the voice coil gap. Excellent heat dissipation has also been achieved by incorporating air channels between the basket and the magnetic top plate. Due to the increase in use of audio systems at outdoor events, the ability of the 15W750 to perform in adverse weather conditions or in areas of high humidity is a great advantage. This has been achieved using exclusive treatments which enable the cone and the magnetic plate to resist corrosion and render the cone water repellent at the same time.



SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	4 Ω
Minimum Impedance	3.3 Ω
Nominal Power Handling ¹	600 W
Continuous Power Handling ²	1200 W
Sensitivity ³	97.0 dB
Frequency Range	40 - 4300 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum

DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Recommended Enclosure	110.0 dm ³ (3.88 ft ³)
Recommended Tuning	42 Hz

PARAMETERS⁴

Resonance Frequency	39 Hz
Re	2.7 Ω
Qes	0.3
Qms	6.2
Qts	0.29
Vas	253.0 dm ³ (8.93 ft ³)
Sd	850.0 cm ² (131.75 in ²)
Xmax	8.0 mm
Mms	89.5 g
Bl	14.0 Txm
Le	0.73 mH
EBP	130 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	371 mm (14.61 in)
Baffle Cutout Diameter	354.0 mm (13.94 in)
Depth	184 mm (7.24 in)
Flange and Gasket Thickness	13 mm (0.51 in)
Net Weight	7.9 kg (17.42 lb)
Shipping Weight	9.0 kg (19.84 lb)
Shipping Box	405 x 405 x 252 mm (15.94x15.94x9.92 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.