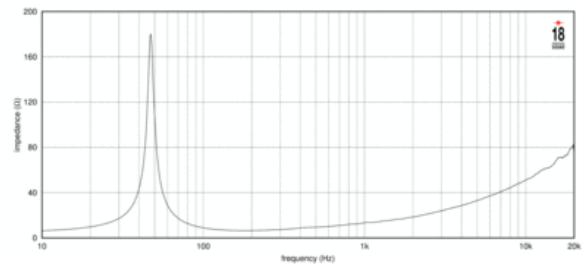
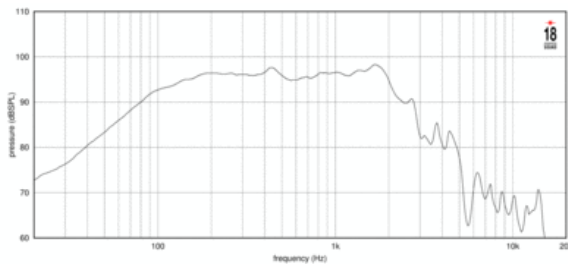




- 98,5 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 1000 WAES power handling
- Reinforced cellulose cone
- Double Demodulating Rings (DDR) for lower distortion
- Improved heat dissipation via unique basket design
- Weather protected cone and plates for outdoor usage
- Suitable for woofer or subwoofer applications

The 15LW1410 represents the updated version of the industry standard 15LW1401 for which can be a direct replacement with improved construction. The transducer has been redesigned for use as a low bass or sub-woofer component in either a more compact reflex, bandpass or horn loaded configuration.

In its reflex configuration, it can be used in extremely compact enclosures, (65 - 130 lt) which is ideal for touring applications, including indoor and outdoor concert reinforcement systems. The reinforced, straight-sided ribbed cone assures smooth response and exceptional strength, with maximum reliability under high mechanical stress. The 100 mm Ø copper voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fibreglas former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. The weight of the windings are evenly distributed, providing a uniform motive drive. This, in conjunction with the use of state-of-the-art high temperature resin adhesives, results in an extremely linear motor assembly. The already low distortion and sound quality of this loudspeaker has been further improved by the Double Demodulation Rings (DDR) designed to dramatically reduce the intermodulation and harmonic distortion whilst improving the transient response. The 15LW1410s ability to perform properly under inclement weather conditions has been achieved using an exclusive cone treatment improving pulp strength, which gives water repellent properties to both sides of the cone. In addition, a special treatment has been applied to both the top and back plates that is far more resistant to the corrosive effects of salts and oxidization than any other in use today.



SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
Nominal Power Handling ¹	1000 W
Continuous Power Handling ²	2000 W
Sensitivity ³	98.5 dB
Frequency Range	40 - 2400 Hz
Voice Coil Diameter	100 mm (4.0 in)
Winding Material	copper
Winding Depth	24.0 mm (0.94 in)
Magnetic Gap Depth	14.0 mm (0.55 in)

DESIGN

Surround Shape	Triple roll
Cone Shape	Straight
Magnet Material	Ferrite
Woofer Cone Treatment	Weather protected
Recommended Enclosure	120.0 dm ³ (4.24 ft ³)
Recommended Tuning	55 Hz

PARAMETERS⁴

Resonance Frequency	42 Hz
Re	5.0 Ω
Qes	0.28
Qms	5.36
Qts	0.27
Vas	131.0 dm ³ (4.63 ft ³)
Sd	850.0 cm ² (131.75 in ²)
η _o	2.6 %
X _{max}	8.5 mm
X _{var}	10.0 mm
M _{ms}	138.0 g
Bl	24.1 Txm
Le	1.0 mH
EBP	150 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	387 mm (15.24 in)
Bolt Circle Diameter	370 mm (14.57 in)
Baffle Cutout Diameter	353.0 mm (13.9 in)
Depth	163 mm (6.42 in)
Flange and Gasket Thickness	19 mm (0.75 in)
Net Weight	12.9 kg (28.44 lb)
Shipping Weight	13.9 kg (30.64 lb)
Shipping Box	405 x 405 x 214 mm (15.94x15.94x8.43 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.