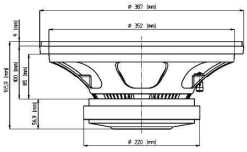
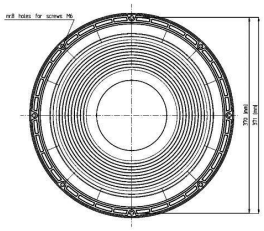
# 15LW1500 8Ω

## LF drivers - 15.0 Inches





- 96 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich Voice coil (ISV)
- 1000 W AES power handling
- Double Silicon Spider (DSS) for improved excursion control and linearity
- Improved heat dissipation via unique basket design

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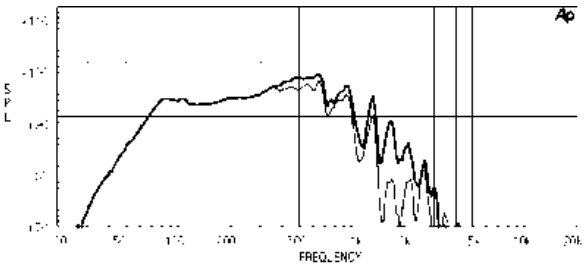
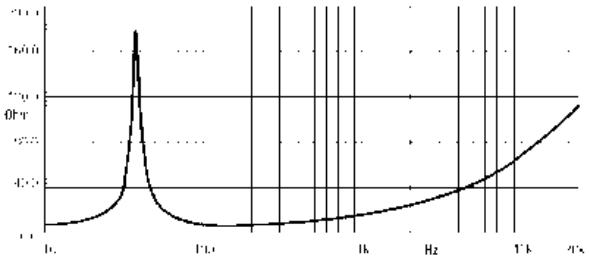
The 15LW1500 is a low frequency loudspeaker which sets a new industry standard in 15" (380 mm) high performance transducers,
achieving a remarkable 34 Hz downwards extension with 96 dB average sensitivity and handling peak power levels of 7000 W.
The 15LW1500 has been designed for use as a low bass or subwoofer component in either highly compact reflex, bandpass or horn loaded configurations. It provides clean, linear frequency reproduction at high power levels, as part of a compact high power fullrange system. In its reflex configuration, it can be used in extremely compact enclosures (75 lt) making it also suitable for portable applications, such as, road shows and bass musical instruments.
The low noise and high excursion capabilities of the double-action roll surround and suspension system, in conjunction with the Eighteen Sound Double Silicon Spider (DSS), enable the 15LW1500 to achieve very high levels of linear travel for a 15" unit.
The already low distortion and unmistakable sound quality of this loudspeaker is further improved using Double Demodulating Rings (DDR), designed to dramatically reduce the intermodulation and harmonic distortion while improving the transient response.
The 100mm copper voice coil employs the Interleaved Sandwich Voice coil (ISV) technology, in which a high strength fiberglas former carries windings on both the outer and inner surfaces to achieve a balanced coil with a uniform distribution of mass and motive energy that results in an extremely linear motor assembly.
The carbon fiber reinforced straight ribbed cone assures smooth response and exceptional strength with maximum reliability under high mechanical stress.
Excellent heat dissipation has been achieved by incorporating air channels between the basket and top plate of the magnet. Further ventilation is provided using air vents in the back plate to direct air into the lower part of the voice coil gap.
Due to the increase in use of high power audio systems at outdoor events or in marine environments, the ability to perform properly under inclement weather conditions is a key feature in the Eighteen Sound philosophy. This has been achieved thanks to an exclusive cone treatment improving pulp strength which gives water repellent properties to both sides of the cone. In addition, a special treatment is applied to the top and back plates which is far more resistant to the corrosive effects of salts and oxidization than any other treatment in use today.



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## LF drivers - 15.0 Inches

### SPECIFICATIONS

| | |
|---|---|
| Nominal Diameter | 380 mm ( in) |
| Nominal Impedance | 8 Ω |
| Minimum Impedance | 5.5 Ω |
| Nominal Power Handling[1] | 1000 W |
| Continuous Power Handling[2] | 1400 W |
| Sensitivity[3] | 96.0 dB |
| Frequency Range | 40 - 2000 Hz |
| Voice Coil Diameter | 100 mm (4.0 in) |
| Winding Material | copper |

### DESIGN

| | |
|---|---|
| Surround Shape | Single roll - Rubber |
| Cone Shape | Straight |
| Magnet Material | Ferrite |
| Woofer Cone Treatment | Weather protected |

### PARAMETERS[4]

| | |
|---|---|
| Resonance Frequency | 34 Hz |
| Re | 5.0 Ω |
| Qes | 0.29 |
| Qms | 11.5 |
| Qts | 0.28 |
| Vas | 195.0 $dm^3$ (6.89 $ft^3$) |
| Sd | 850.0 $cm^2$ (131.75 $in^2$) |
| Xmax | 9.0 mm |
| Mms | 130.0 g |
| Bl | 22.1 Txm |
| Le | 2.4 mH |
| EBP | 117 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 | 165 mm (6.5 in) |
| Flange and Gasket Thickness | 24 mm (0.94 in) |
| Net Weight | 12.4 kg (27.34 lb) |
| Shipping Weight | 13.4 kg (29.54 lb) |
| Shipping Box | |
| 405 x 405 x 214 mm (15,94 x 15,94 x 8,43 in) mm ( 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.