

LF drivers - 15.0 Inches



- 99 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound voice coil
- 600W AES power handling
- Optimized and improved neodymium magnet assembly
- Double Demodulating Ring (DDR) for lower distortion
- Humidity resistant cone
- Ideal for two way systems and for high loading compact subwoofer applications
- External neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Recommended for multiway systems and studio monitoring applications

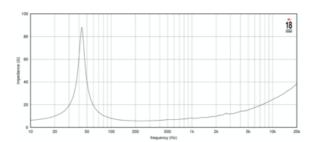
The 15ND840 is a high power, high output, extended low frequency neodymium transducer which meets the most stringent requirements in high quality professional transducers and represents the updated version of the 18sound flagship (15ND830) to which is a direct replacement with improved construction.

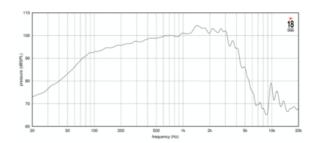
The high level of performance and sound quality have been achieved by exploiting the most advanced technologies available today. Thanks to its versatility, the 15ND840 can be used in 2-way compact reflex enclosures, in multiway systems and in compact sub woofers as small as 60 lt. The neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange. This results in high levels of force factor and power handling with an optimum power to weight ratio.

The deep profile curvilinear cone, created from a special high strength wood pulp, has been designed to achieve the best possible linearity within its frequency range. The cone surround, made is highly resistant to aging and fatigue. The in-house developed cone treatment is a humidity repellent and significantly dampens bell mode resonances. The 75mm (3in) copper edge-wound voice coil assembly is wound on a strong fiberglas former to improve force transmission and power handling. The already low distortion and sound quality are further improved by two demodulating rings (DDR) that flatten impedance and phase with a constant power transfer.



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SPECIFICATIONS

Nominal Impedance	2 8
Minimum Impedance	5.7 Ω
Nominal Power Handling ¹	600 W
Sensitivity ²	990.0 dB
Frequency Range	38 - 4000 Hz
Voice Coil Diameter	75 mm (2.95 in)
Winding Material	copper
Winding Depth	23.5 mm (0.93 in)
Magnetic Gap Depth	9.0 mm (0.35 in)

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	100.0 dm ³ (3.53 ft ³)
Recommended Tuning	45 Hz

PARAMETERS³

43 Hz
5.0 Ω
0.39
6.6
0.37
163.0 dm ³ (5.76 ft ³)
881.4 cm ² (136.62 in ²)
3.1 %
9.5 mm
10.0 mm
94.0 g
17.9 Txm
0.43 mH
110 Hz

MOUNTING AND SHIPPING INFO

393 mm (15.47 in)
371 mm (14.61 in)
354.0 mm (13.94 in)
184 mm (7.24 in)
13 mm (0.53 in)
4.7 kg (10.36 lb)
5.5 kg (12.13 lb)

- 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. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
- 3. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.