



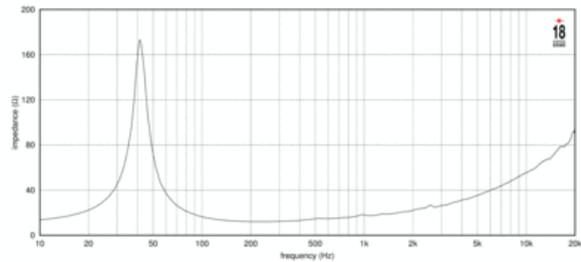
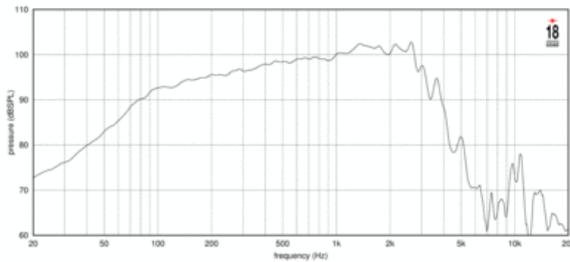
- 98.5 dB SPL 1W/ 1m average sensitivity
- 75 mm (3 in) edgewound voice coil
- 600W AES power handling
- Optimized and improved neodymium magnet assembly
- Demodulating Ring (SDR) for lower distortion
- Humidity resistant cone
- Ideal for two way systems and for high loading compact subwoofer applications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

The 15ND940 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 (15ND930) 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 15ND940 can be used in 2-way compact reflex enclosures, in multiway systems and in high loading sub woofers as small as 70 lt (compact reflex, bandpass and horn loaded configurations).

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 fibreglas former to improve force transmission and power handling. The already low distortion and sound quality are further improved by Demodulating Ring (SDR) that flatten impedance and phase with a constant power transfer.



### SPECIFICATIONS

Nominal Diameter	380 mm ( in)
Nominal Impedance	16 Ω
Minimum Impedance	12.0 Ω
Nominal Power Handling <sup>1</sup>	600 W
Continuous Power Handling <sup>2</sup>	1200 W
Sensitivity <sup>3</sup>	98.5 dB
Frequency Range	38 - 3300 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	copper
Winding Depth	23.5 mm (0.93 in)
Magnetic Gap Depth	9.0 mm (0.35 in)

### PARAMETERS<sup>4</sup>

Resonance Frequency	41 Hz
Re	10.7 Ω
Qes	0.39
Qms	4.6
Qts	0.36
Vas	166.0 dm <sup>3</sup> (5.86 ft <sup>3</sup> )
Sd	881.0 cm <sup>2</sup> (136.56 in <sup>2</sup> )
η <sub>o</sub>	2.7 %
X <sub>max</sub>	9.5 mm
X <sub>var</sub>	10.0 mm
M <sub>ms</sub>	102.0 g
Bl	26.6 Txm
Le	1.0 mH
EBP	105 Hz

### DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofers Cone Treatment	Reinforced, water repellent, treated paper
Recommended Enclosure	70.0 dm <sup>3</sup> (2.47 ft <sup>3</sup> )
Recommended Tuning	45 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 (0.53 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.7 kg (12.57 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.