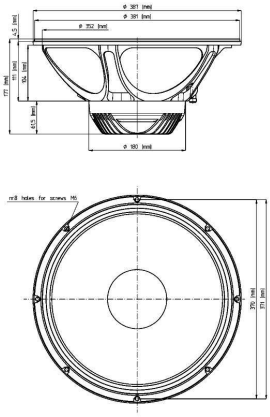
15ND830 8Ω

LF drivers - 15.0 Inches



- 98 dB SPL 1W / 1m average sensitivity
- 75 mm (3 in) edgewound voice coil (ISV)
- 450 W AES power handling
- Neodymium magnet assembly
- Weather protected cone for outdoor usage
- Ideal for compact reflex subwoofer and reflex multiway systems

The 15ND830 is a high power, high output, low frequency woofer meeting the most stringent requirements in high quality professional transducers. Thanks to its versatility, the 15ND830 can be used in 2-way compact reflex enclosures and reflex / band pass subwoofers. The neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange, since the external magnet configuration is considerably more efficient than traditional under-pole magnet topology. This results in high levels of force factor and power handling with an optimum power to weight ratio. The direct contact between the heat sink and basket, together with the magnetic structure, represents a fundamental improvement in thermal connection and heat dissipation. Hence, power handling capabilities are increased and power compression lowered. 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 from a linen material is highly resistant to aging and fatigue. The in-house developed cone treatment is fully water repellent and also gives a significant degree of rigidity to the cone. The 75mm Interleaved Sandwich Voice coil (ISV) assembly is wound on a strong fiberglas former which improves force transmission and thermal power handling. A special coating applied to both the top and back plates makes the 15ND830 far more resistant to the corrosive effects of salts and oxidization.

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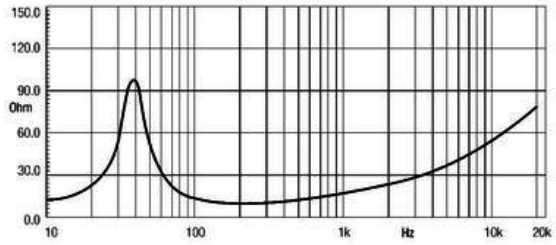

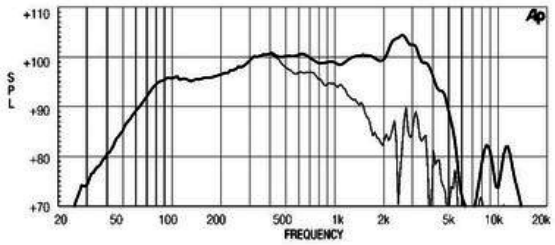

SPECIFICATIONS

Nominal Diameter	380 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Nominal Power Handling[1]	450 W
Continuous Power Handling[2]	700 W
Sensitivity[3]	98.0 dB
Frequency Range	38 - 5000 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum

DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	110.0 dm^3 (3.88 ft^3)
Recommended Tuning	42 Hz

PARAMETERS[4]

Resonance Frequency	39 Hz
Re	5.7 Ω
Qes	0.35
Qms	3.9
Qts	0.32
Vas	213.0 dm^3 (7.52 ft^3)
Sd	850.0 cm^2 (131.75 in^2)
Xmax	6.5 mm
Mms	80.0 g
Bl	18.0 Txm
Le	1.54 mH
EBP	111 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	177 mm (6.97 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	4.6 kg (10.14 lb)
Shipping Weight	5.6 kg (12.35 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.

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