6ND410 16Ω

LF drivers - 6.5 Inches

- 100,5 dB SPL 1W / 1m average sensitivity
- 45 mm (1,77 in) edgewound aluminum voice coil
- 180 W AES power handling
- Neodymium motor assembly
- Extremely high sound quality
- Very shallow profile, 58 mm (2,3 in)
- Suitable for horn and direct radiation midrange applications

The 6ND410 is a very high output, state-of-the-art midrange product for high quality professional use. The high level of sound quality has been achieved thanks to extensive research by Eighteen Sound engineers which focused on implementing mid frequencies intelligibility. The 6ND410 can be used as a midrange in both horn and direct radiation, closed or reflex enclosures, as small as 2 liters. The extremely powerful external neodymium magnet assembly assures high flux concentration, low power compression and excellent heat exchange. Consequently, the levels of force factor and power handling are at a top professional level with an optimum power to weight ratio. A consistent heat transfer is guaranteed by the encapsulation of the magnetic structure in the interior of the basket, offering a large contact space between the back plate and the dissipating structure. The curvilinear cone-surround, has been created using computer aided vibrational modelling software to move all undesired bell modes out of the usable frequency range. The 45 mm edge-wound voice coil assembly and terminals have been designed to minimise the moving mass while reinforcing force transmission. The 3 threaded back plate holes give the final user the opportunity to insert an external customised heat sink, if further heat dissipation is required. A proprietary humidity-block cone treatment makes the transducer suitable for outdoor use in adverse weather conditions. In addition, a special coating applied to both the top and back plates makes the 6ND410 far more resistant to the corrosive effects of salts and oxidization.

Eighteen Sound Srl
Via Botticelli 8 - 42124 Mancasale (RE) - ITALY - Ph. +39 0522 1861800 - Fax +39 0522 1861801 - info@eighteensound.it

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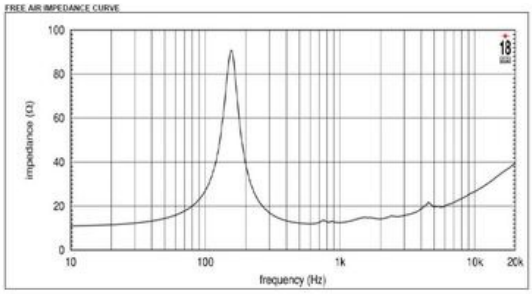

SPECIFICATIONS

Nominal Diameter	152 mm (in)
Nominal Impedance	16 Ω
Minimum Impedance	12.0 Ω
Nominal Power Handling[1]	180 W
Continuous Power Handling[2]	240 W
Sensitivity[3]	102.0 dB
Frequency Range	200 - 8000 Hz
Voice Coil Diameter	44 mm (1.75 in)
Winding Material	aluminum

DESIGN

Surround Shape	Double roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	3.0 dm^3 (0.11 ft^3)

PARAMETERS[4]

Resonance Frequency	149 Hz
Re	10.6 Ω
Qes	0.55
Qms	4.14
Qts	0.48
Vas	6.2 dm^3 (0.22 ft^3)
Sd	143.0 cm^2 (22.17 in^2)
Xmax	2.0 mm
Mms	8.8 g
Bl	13.0 Txm
Le	0.14 mH
EBP	270 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	162 mm (6.38 in)
Bolt Circle Diameter	170 mm (6.69 in)
Baffle Cutout Diameter	148.0 mm (5.83 in)
Depth	60 mm (2.36 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Net Weight	1.25 kg (2.76 lb)
Shipping Weight	1.35 kg (2.98 lb)
Shipping Box	185x170x85 mm (7.28x6.69x3.35 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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