ND4015T

Neo High Frequency Driver

Key Features

111 dB 1W / 1m average sensitivity

1,5 inch exit throat

4 inch edgewound aluminium voice coil

320W max. program power handling

Pure titanium diaphragm

Copper plated pole piece reduces inductance modulation distortion increasing high frequency output

High precision diaphgram centering system for improved performances and lifespan

BEM optimized 4 slot phase plug design

Available also in 1.4" and 2" exit versions

General Description

ND4015T is a 1.5 inch exit, 4" voice coil neodymium compression driver that has been designed for extremely high quality sound systems application.

The titanium diaphragm has been developed to assure unmatched transient response. The diaphragm assembly is made by joining the voice coil former directly to the titanium diaphragm on its upper bend edge. In comparison with a conventional straight former joint, the ND4015T design assures extended frequency energy transfer for improved response linearity and unparallel reliability. This feature allows proper motion control of the dome in real working conditions. A proprietary treated Nomex former is used as Nomex shows a 30% higher value of tensile elongation at a working operative temperature (200°C) when compared to Kapton. Moreover, this proprietary former material is also suitable for use in higher moisture content environments.

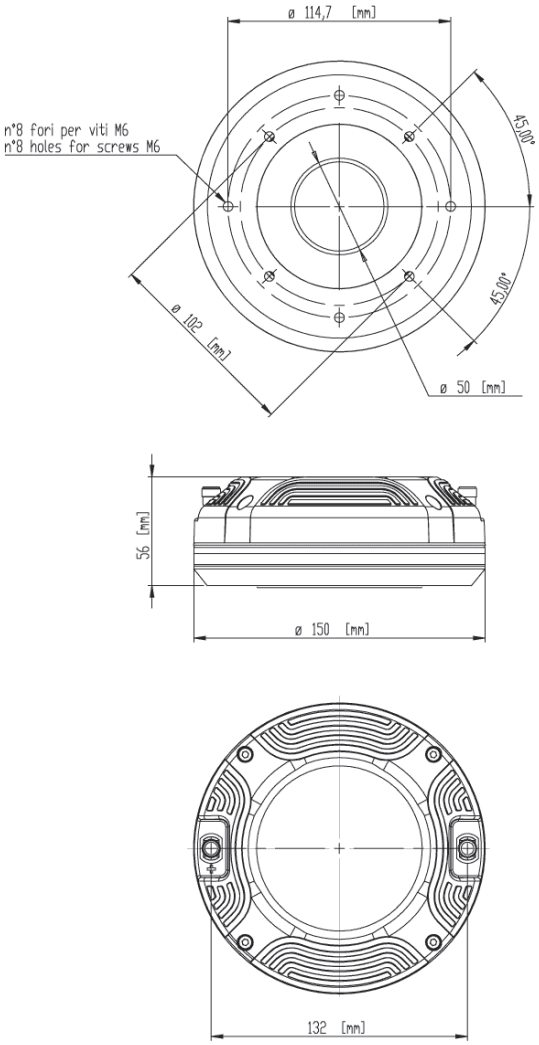
The ND4015T extremely powerful neodymium magnet assembly has been designed to obtain 22K Gauss in the gap for major benefits in transient response. The motor structure, throughout the precisely coherent phase plug with 4 circumferential slots and copper ring on the pole piece, reduces inductance effect and distortion. Four top plate air ducts have been designed to act as a loading chamber for the diaphragm, implementing mid band distortion and response figures.

The custom designed O-ring creates a tight seal between the plate and the cover assuring air chamber loading.

Excellent heat dissipation and thermal exchange are guaranteed by the direct contact between the magnetic structure and the aluminum cover which gives a lower power compression value.

A special epoxy coating is applied to the ring magnet and the top and back plates of the magnetic structure making the driver more resistant to the corrosive effects of salts and oxidization.

0424T8N100 8 Ohm **0474T8N000 D-KIT 8 Ohm**



NEODYMIUM HF DRIVERS

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ND4015T

Neo High Frequency Driver

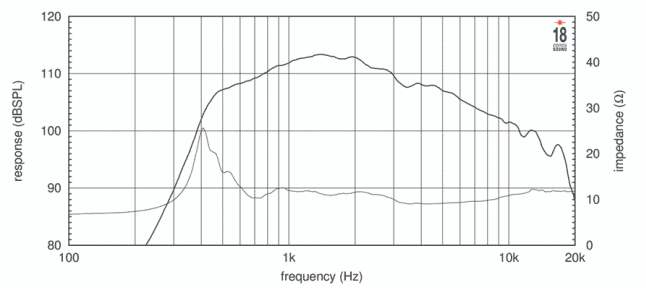
GENERAL SPECIFICATIONS

THROAT DIAMETER	38 mm (1,5 in)
RATED IMPEDANCE	8 ohm
DC RESISTANCE	6 ohm
MINIMUM IMPEDANCE	9 ohm
LE (AT 1KHZ)	N/A
CONTINUOUS POWER (1)	160 W
MAX. PROGRAM POWER (2)	320 W
SENSITIVITY (1W@1M) (3)	111 dB
FREQUENCY RANGE	800 Hz ÷ 20 kHz
MINIMUM XOVER FREQUENCY	800 Hz with 24 dB/oct LR
DIAPHRAGM MATERIAL	Pure Titanium
VOICE COIL DIAMETER	100 mm (4 in)
VOICE COIL WINDING MATERIAL	Edge-wound aluminum
MAGNET MATERIAL	Neodymium
FLUX DENSITY	2 T
BL FACTOR	14,1 N/A
POLARITY	Positive voltage on red terminal gives positive pressure in the throat

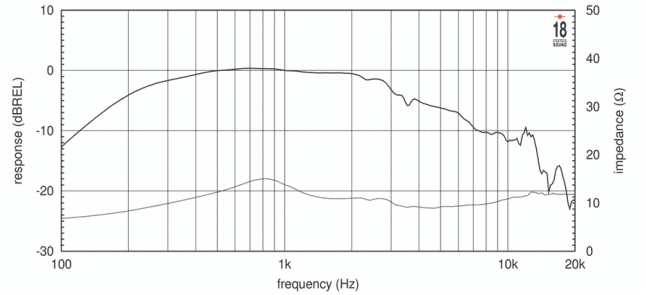
MOUNTING INFORMATIONS

Overall diameter	150 mm (6 in)
Mounting holes diameter	4 M6 holes 90° at Ø102 mm (4 in)
Bolt circle diameter	102 - 114,7 mm(4 - 4.52 in)
Total depth	57 mm (2,2 in)
Net weight	3.2 Kg (7 lb)
Shipping weight	3.7 Kg (8.14 lb)
CardBoard Packaging dimensions	170 x 170 x 80 mm (6,69 x 6,69 x 3,15 in)

FREQUENCY RESPONSE MEASURED WITH 2.83V INPUT AT 1M DISTANCE ON CENTRAL FORWARD AXIS FROM THE MOUTH OF XR1564 HORN. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.



FREQUENCY RESPONSE MEASURED WITH 7.75 mV INPUT ON CENTRAL FORWARD AXIS IN A PLANE WAVE TUBE. THIN LINE REPRESENTS IMPEDANCE MEASURED IN SAME CONDITIONS.



NOTES

(1) Continous Power is defined as a level that is 3 dB greater than the one measured with the new AES2-2012 standard, using continous pink noise having 12 dB crest factor for 2 hours, mounted on XR1564 horn, from 1kHz up to 10kHz.

(2) Program power rating is defined as 3 dB greater than continuous power rating and is a conservative expression of the transducer ability to handle music program material

(3) Sensitivity represent the averaged value of acoustic output as measured on the central forward axis of a XR1564 horn, at a distance 1 m from horn mouth, when connected to 2,83 V sine wave swept between 1000-4000 Hz.