

12ND710 16OHM (022126N710)

VERY HIGH OUTPUT MB NEODYMIUM TRANSDUCER

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	300 mm (12 in)
RATED IMPEDANCE	16 Ω
AES POWER (1)	450 W
PROGRAM POWER (2)	700 W
PEAK POWER (3)	1400 W
SENSITIVITY (4)	101 dB
FREQUENCY RANGE (5)	61 + 5500 Hz
POWER COMPRESSION @-10 dB (6)	(45W) 0,6 dB
POWER COMPRESSION @-3 dB	(225W) 2,0 dB
POWER COMPRESSION @FULL POWER	(450W) 2,8 dB
MAX RECOMM. FREQUENCY	2000 Hz
RECOMM. ENCLOSURE VOLUME	10 + 60 lt. (0,35 + 2,12 cu.ft)
MINIMUM IMPEDANCE	11 Ω at 25°
MAX PEAK TO PEAK EXCURSION	22 mm (0,87 in)
VOICE COIL DIAMETER	75 mm (2,95 in)
VOICE COIL WINDING MATERIAL	Aluminum
SUSPENSION	Multiroll, Polycotton
CONE	Curvilinear, Paper

THIELE SMALL PARAMETERS (7)

Fs	53 Hz
Re	9,4 Ω
Sd	0,0531 sq.m (82,31 sq.in)
Qms	4,03
Qes	0,31
Qts	0,29
Vas	85,5 lt. (3,02 cu.ft)
Mms	40,9 gr. (0,09 lb)
BL	20,3 Tm
Linear Mathematical Xmax (8)	±5 mm (±0,20 in)
Le (1kHz)	0,74 mH
Ref. Efficiency 1W@1m (half space)	98,3 dB

MOUNTING INFORMATION

Overall diameter	315 mm (12,40 in)
N. of mounting holes	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296 + 300 mm (11,65 + 11,81 in)
Front mount baffle cutout ø	282 mm (11,10 in)
Rear mount baffle cutout ø	282 mm (11,10 in)
Total depth	141 mm (5,55 in)
Flange and gasket thickness	11,5 mm (0,45 in)
Net weight	4,7 kg (10,36 lb)
Shipping weight	4,8 kg (10,58 lb)
CardBoard Packaging dimensions	332x332x184 mm (13,07x13,07x7,24 in)

TECHNOLOGIES

ISV Interleaved Sandwich Voice Coil

(1) AES standard.

(2) Program power rating is measured in 50 lit. enclosure tuned at 60 Hz using a 40-400 band limited pink noise test signal applied for 2 hours and with 50% duty cycle.

(3) The peak power rating is based on a 3 dB crest factor above the program power rating and represents the maximum permitted instantaneous peak power level over a maximum period of 10ms which will be withstood by the loudspeaker without damage.

(4) Sensitivity represents the averaged value of acoustic output as measured on the forward central axis of cone, at distance 1m from the baffle panel, when connected to 4V sine wave test signal swept between 100Hz and 500Hz with the test specimen mounted in the same enclosure as given for 2 above.

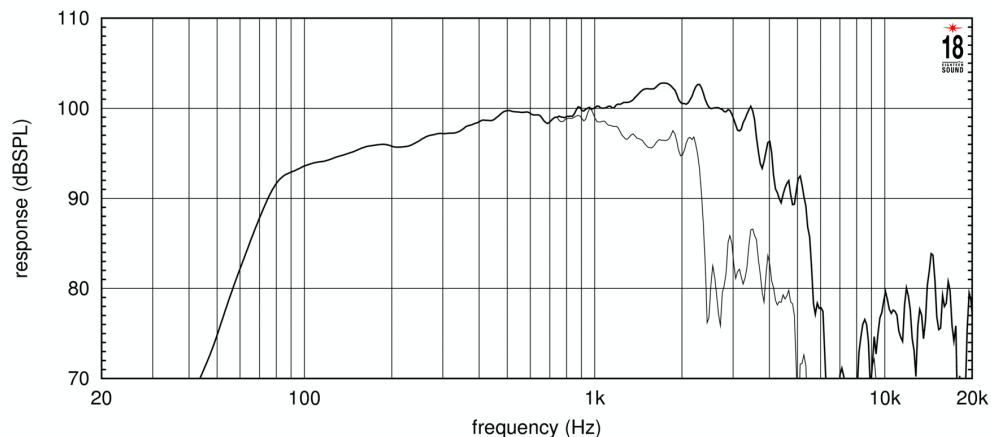
(5) Frequency range is given as the band of frequencies delineated by the lower and upper limits where the output level drops by 10 dB below the rated sensitivity in half space environment.

(6) Power compression represents the loss of sensitivity for the specified power, measured from 50 to 500Hz after a 5 min pink noise preconditioning test at the specified power.

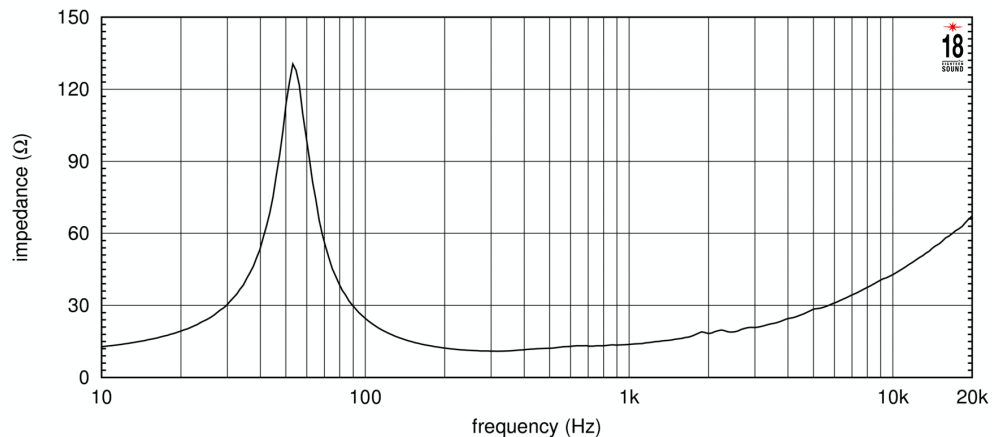
(7) Thiele - Small parameters are measured after the test specimen has been conditioned by 1 hour 20 Hz sine and represent the expected long term parameters after a short period of use.

(9) Linear Mat. Xmax is calculated as: $(Hvc-Hg)/2 + Hg/4$ where Hvc is the coil depth and Hg is gap depth.

FREQUENCY RESPONSE MADE IN 50 LT. ENCLOSURE TUNED AT 60 Hz IN FREE FIELD (4π) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER, THE THIN LINE REPRESENTS 45° OFF AXIS FREQUENCY RESPONSE



FREE AIR IMPEDANCE CURVE



Versione: 21/04/2010

