



12ND610

Very High Output MB Neodymium Transducer

102 dB SPL 1W / 1m average sensitivity
 75 mm (3 in) Interleaved Sandwich Voice coil (ISV)
 450 W AES power handling
 Neodymium magnet assembly
 Very shallow profile, 124 mm (4,9 in)
 Water resistant cone
 Suitable for midrange and mid-bass loaded applications



GENERAL SPECIFICATIONS

Nominal Diameter	300mm (12 in)
Rated Impedance	8 Ohm
AES Power (1)	450W
Program Power (2)	700W
Peak Power	1500W
Sensitivity (3)	102dB
Frequency Range (4)	80 - 5500 Hz
Power Compression @-10dB	0,7 dB
Power Compression @-3dB	1,9 dB
Power Compression @Full Power	2,4 dB
Max Recomm. Frequency	2000 Hz
Recomm. Enclosure Volume	8 - 40 lt. (0,28 - 1,41 cuft)
Minimum Impedance	4,2 Ohm at 25°C
Max Peak To Peak Excursion	23 mm (0,91 in)

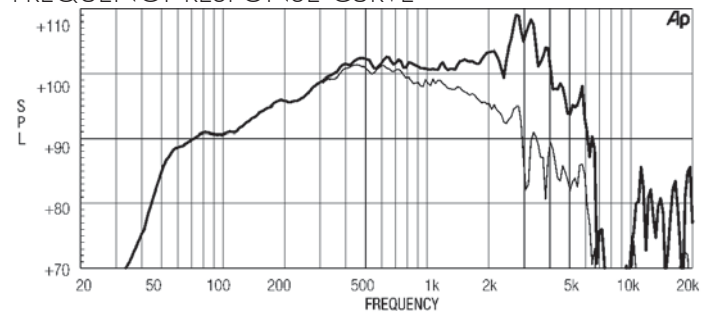
THIELE SMALL PARAMETERS (5)

Fs	46 Hz
Re	5,9 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	4,3
Qes	0,15
Qts	0,14
Vas	94,4 lt. (3,32 cuft)
Mms	49 gr. (0,11 lb)
BL	24 Tm
Linear Mathematical Xmax (6)	± 3,5 mm (± 0,14 in)
le (1kHz)	1,17 mH
Ref. Efficiency 1W@1m (half space)	100 dB

MOUNTING INFORMATION

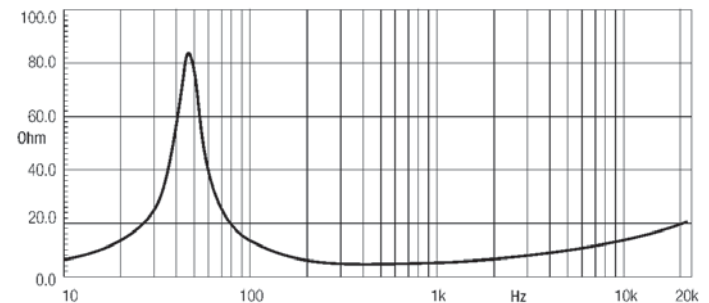
Overall diameter	315 mm (12,4 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296-300 mm (11,65-11,8 in)
Front mount baffle cutout Ø	282 mm (11,1 in)
Rear mount baffle cutout Ø	282 mm (11,1 in)
Total depth	124 mm (4,88 in)
Flange and gasket thickness	11,5 mm (0,45 in)
Net weight	3,4 kg (7,51 lb)
Shipping weight	4,2 kg (9,27 lb)
CardBoard Packaging dimensions	332 x 332 x 184 mm(13,07 x 13,07 x 7,24 in)

FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 12ND610 MADE ON 50 LIT. ENCLOSURE TUNED 60HZ IN FREE FIELD (4PI) ENVIRONMENT. ENCLOSURE CLOSES THE REAR OF THE DRIVER. THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE

FREE AIR IMPEDANCE MAGNITUDE CURVE



NOTES

- (1) AES power is determined according to AES2-1984 (r2003) standard
- (2) Program power rating is measured in 50 lit enclosure tuned @ 60Hz, using 60-2000Hz band limited pink noise test signal with 50% duty cycle, applied for 2 hours.
- (3) 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 2,83V sine wave test signal swept between 500Hz and 2500Hz with the test specimen mounted in the same enclosure as given for #2 above.
- (4) 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.
- (5) Thiele - Small parameters are measured after the test specimen has been conditioned by 450 W AES power and represent the expected long term parameters after a short period of use.
- (6) Linear Math. Xmax is calculated as $(HvcHg)/2 + Hg/4$ where Hvc is the coil depth and Hg is the gap depth.