



12MB1000

High Output MB Ferrite Transducer

- 102 dB SPL 1W / 1m average sensitivity
- 100 mm (4 in) Interleaved Sandwich ISV copper voice coil
- 600 W AES power handling
- Excellent transient response
- Very low power compression
- Improved heat dissipation via unique basket design
- Ideal for direct radiating or horn loaded midbass systems



GENERAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Rated Impedance	8 Ohm
AES Power (1)	600 W
Program Power (2)	800 W
Peak Power	1600 W
Sensitivity (3)	102 dB
Frequency Range (4)	80 - 3500 Hz
Power Compression @-10dB	0,5 dB
Power Compression @-3dB	1,5 dB
Power Compression @Full Power	2,1 dB
Max Recomm. Frequency	2500 Hz
Recomm. Enclosure Volume	8 - 60 lt. (0,28 - 2,12 cuft)
Minimum Impedance	7,2 Ohm at 25°C
Max Peak To Peak Excursion	20 mm (0,79 in)

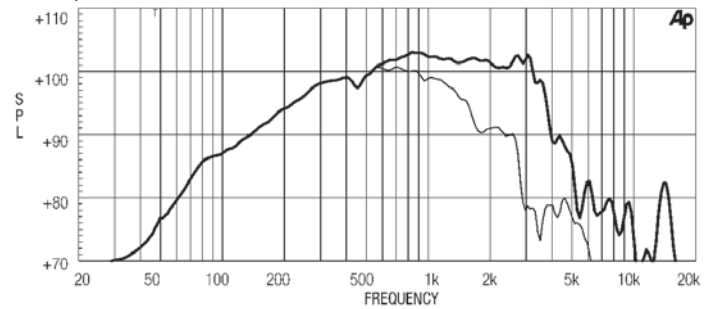
THIELE SMALL PARAMETERS (5)

Fs	54 Hz
Re	5,8 Ohm
Sd	0,0531 sq.mt. (82,31 sq.in.)
Qms	6
Qes	0,2
Qts	0,18
Vas	60 lt. (2,12 cuft)
Mms	55,5 gr. (0,12 lb)
BL	23,5 Tm
Linear Mathematical Xmax (6)	± 2,5mm (±0,10 in)
le (1kHz)	1,46 mH
Ref. Efficiency 1W@1m (half space)	99 dB

MOUNTING INFORMATION

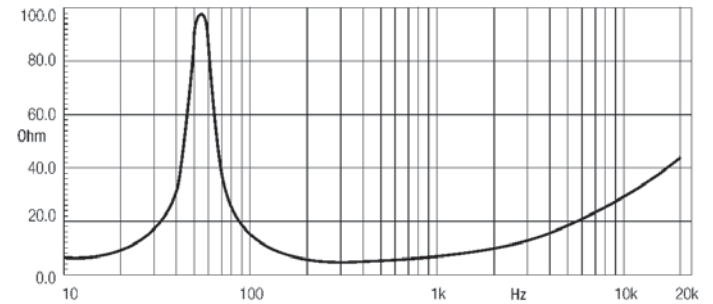
Overall diameter	315 mm (12,4 in)
N. of mounting holes and bolt	8
Mounting holes diameter	7,15 mm (0,28 in)
Bolt circle diameter	296 - 300 mm (11,65 - 11,8 in)
Front mount baffle cutout Ø	282 mm (11,1 in)
Rear mount baffle cutout Ø	282 mm (11,1 in)
Total depth	118,4 mm (4,66 in)
Flange and gasket thickness	16,5 mm (0,65 in)
Net weight	9,6 kg (21,19 lb)
Shipping weight	10,3 kg (22,74 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 12MB1000 MADE ON 50 LIT. CLOSED BOX ENCLOSURE 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



FREE AIR IMPEDANCE MAGNITUDE CURVE

NOTES

- (1) AES power is determined according to AES2-1984 (r2003) standard
- (2) Continuous power rating is measured in 50 lit closed box using a 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 (1) 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 600 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.