



Key features

- 102dB SPL 1W / 1m average sensitivity
- 100mm (4") high temperature copper voice coil
- 600 W continuous pink noise
- Excellent transient response
- Ideal for direct radiating or horn loaded midrange
- Improved heat dissipation via unique basket design
- Very low power compression

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	300 mm	(12 in)
RATED IMPEDANCE	8 ohms	
CONTINUOUS PINK NOISE	600 W	(1)
CONT. POWER	400 W	(2)
PROGRAM POWER	800 W	(3)
PEAK POWER	1600 W	(4)
SENSITIVITY	102 dB	(5)
FREQUENCY RANGE	80 - 3500 Hz	(6)
POWER COMPRESSION		(7)
@-10 dB (40 W)	0,5 dB	
@-3 dB (200 W)	1,5 dB	
@FULL POWER (400 W)	2,1 dB	
MAX RECOMM. FREQUENCY	2500 Hz	
RECOMM. ENCLOSURE VOLUME	8 - 60 lt.	(0,28 - 2,12 cuft)
MINIMUM IMPEDANCE	7,2 Ohms	at 25 deg.
MAX EXCURSION PEAK TO PEAK	20 mm	(0,79 in)
VOICE COIL DIAMETER	100 mm	(3,95 in)
VOICE COIL WINDING MATERIAL	copper	

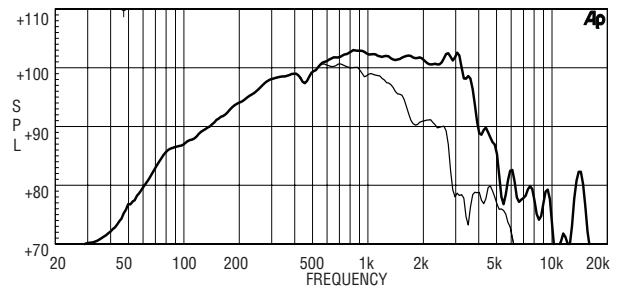
THIELE-SMALL PARAMETERS (8)

Fs	54 Hz	
Re	5,8 ohms	
Sd	0,0531 sq.mt.	(82,31 sq.in.)
Qms	6,00	
Qes	0,20	
Qts	0,18	
Vas	60 lt.	(2,12 cuft)
Mms	55,5 gr.	(0,12 lb)
BL	23,5 Tm	
Linear Mathematical Xmax	± 2,5mm	(± 0,10 in)(9)
Le (1kHz)	1,46 mH	
Ref. Efficiency		
dB / 1W / 1m (half space)	99 dB	

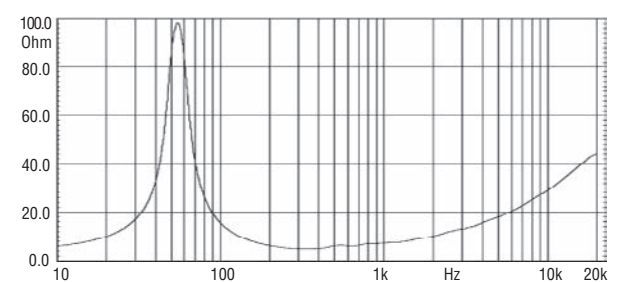
MOUNTING INFORMATION

Overall diameter	315 mm	(12.4 in)
N. of mounting holes	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 diameter	282 mm	(11.1 in)
Rear mount baffle		
cutout diameter	282 mm	(11.1 in)
Total depth	120 mm	(4.72 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 packing dimensions	332 x 332 x 184 mm	(13.07 x 13.07 x 7.24 in)

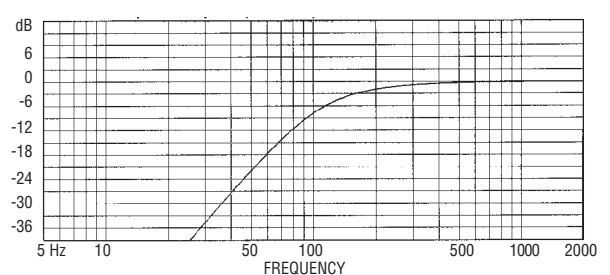
FREQUENCY RESPONSE CURVE OF 12MB1000 MADE ON 50 Lit. CLOSED BOX ENCLOSURE IN FREE FIELD (4pi) ENVIROMENT. ENCLOSURE CLOSE THE REAR OF THE DRIVER . THE THIN LINE REPRESENTS 45 DEG. OFF AXIS FREQUENCY RESPONSE



FREE AIR IMPEDANCE MAGNITUDE CURVE



NORMALIZED AMPLITUDE RESPONSE (dB/Hz)



Box Parameters

Custom Vented Box

Vb	= 8,00 Lt.	Fill	= normal
Fb	= 80.0 Hz	Dv	= 6,00 cm
QL	= 7.0	Lv	= 10,62 cm

(1) AES standard
 (2) Continuous power rating is measured in 50 lit. closed enclosure using a 60-2000Hz band limited pink noise test signal applied continuously for 2 hours.
 (3) *Program power rating is measured as for "2" above but 50% duty cycle."
 (4) The peak power rating is based on a 6dB crest factor above the continuous 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.
 (5) 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 2,83 V sine wave test signal swept

between 500Hz and 2500Hz with the test specimen mounted in the same enclosure as given for 2 above.
 (6) 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.
 (7) Power compression represents the loss of sensitivity for the specified power, measured from 50-500 Hz, after a 5 min pink noise preconditioning test at the specified power.
 (8) 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 .
 (9) Linear Mat. Xmax is calculated as: $(Hvc \cdot Hg) / 2 + Hg / 4$ where Hvc is the coil depth and Hg is gap depth.