6NMB420

High Output MB Neodymium Transducer

100 dB SPL 1W / 1m average sensitivity
44 mm (1 3/4 in) voice coil
200 W AES power handling
External neodymium magnet assembly
Single Demodulating Ring (SDR) for lower distortion
Weather protected cone and plates for outdoor usage
Improved heat dissipation via Active Cooling System
Specially designed for line arrays and compact two way systems

GENERAL SPECIFICATIONS

Nominal Diameter	152mm (6 in)
Rated Impedance	8 Ohm
AES Power (1)	200 W
Program Power (2)	260 W
Peak Power	500 W
Sensitivity (3)	100 dB
Frequency Range (4)	200 - 7000 Hz
Power Compression @-10dB	0,9 dB
Power Compression @-3dB	1,6 dB
Power Compression @Full Power	2,9 dB
Max Recomm. Frequency	3500 Hz
Recomm. Enclosure Volume	2 - 6 lt. (0,07 - 0,21 cuft)
Minimum Impedance	6,2 Ohm at 25°C
Max Peak To Peak Excursion	14 mm (0,55 in)

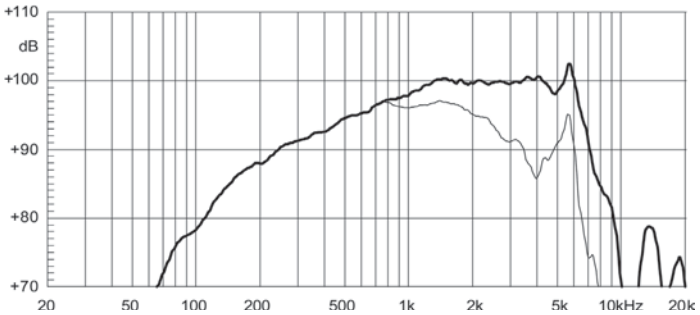
THIELE SMALL PARAMETERS (5)

Fs	110 Hz
Re	5,3 Ohm
Sd	0,013 sq.mt. (20,15 sq.in.)
Qms	2,7
Qes	0,38
Qts	0,33
Vas	6,1 lt. (0,22 cuft)
Mms	8,5 gr. (18,76 lb)
BL	9 Tm
Linear Mathematical Xmax (6)	± 3 mm (±0,12 in)
Le (1kHz)	0,1 mH
Ref. Efficiency 1W@1m (half space)	95,1 dB

MOUNTING INFORMATION

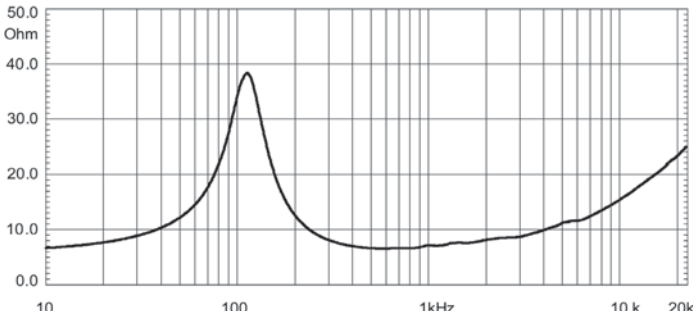
Overall diameter	162 mm (6,38 in)
N. of mounting holes and bolt	4
Mounting holes diameter	5,5 mm (0,22 in)
Bolt circle diameter	170 mm (6,69 in)
Front mount baffle cutout Ø	148 mm (5,38 in)
Rear mount baffle cutout Ø	148 mm (5,38 in)
Total depth	73 mm (2,87 in)
Flange and gasket thickness	11,5 mm (0,45 in)
Net weight	1,25 kg (2,76 lb)
Shipping weight	1,8 kg (3,97 lb)
CardBoard Packaging dimensions	170 x 170 x 80 mm (6,69 x 6,69 x 3,15 in)

FREQUENCY RESPONSE CURVE



FREQUENCY RESPONSE CURVE OF 6NMB420 MADE ON 2 LIT. CLOSED 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



NOTES

(1) AES power is determined according to AES2-1984 (r2003) standard
(2) Program power rating is measured in 2 lit closed enclosure using a 150-3000Hz 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 200 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.