

6ND430

Low Frequency Neo Transducer

NEODYMIUM LF-MB-MF TRANSDUCERS

18 Lite 60Wz
gas blown

GENERAL SPECIFICATIONS

NOMINAL DIAMETER	152mm (6 in)
RATED IMPEDANCE	16 Ohm
CONTINUOUS PINK NOISE (1)	200 W
CONTINUOUS POWER (2)	130 W
PROGRAM POWER (3)	260 W
PEAK POWER (4)	500 W
SENSITIVITY (5)	92,5 dB
FREQUENCY RANGE (6)	63 ÷ 5500 Hz
POWER COMPRESSION	(13 W) 1,0 dB
@-10DB (7)	
POWER COMPRESSION @-3DB	(65 W) 1,5 dB
POWER COMPRESSION @FULL	(130 W) 2,9 dB
POWER	
MAX RECOMM. FREQUENCY	3000 Hz
RECOMM. ENCLOSURE VOLUME	10 ÷ 40 lt. (0,35 ÷ 1,41 cuft)
MINIMUM IMPEDANCE	12,4 Ohm at 25°C
MAX PEAK TO PEAK EXCURSION	22 mm (0.87 in)
VOICE COIL DIAMETER	45 mm (1.77 in)
VOICE COIL WINDING MATERIAL	aluminum
POLARITY	positive voltage on red terminal gives forward cone motion

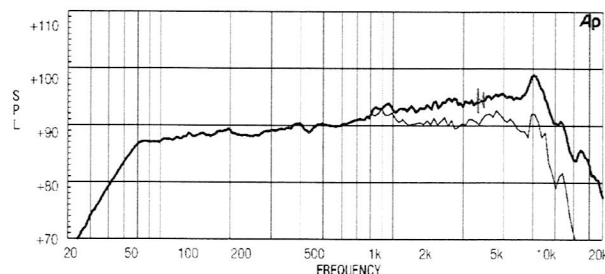
THIELE SMALL PARAMETERS (8)

Fs	63 Hz
Re	11 Ohm
Sd	0,0133 sq.mt. (20,6 sq.in.)
Qms	6,3
Qes	0,42
Qts	0,39
Vas	13,4 lt. (0,47 cuft)
Mms	12,5 gr. (0,03 lb)
BL	11,4 Tm
Linear Mathematical Xmax (9)	± 5 mm (±0,20 in)
Le (1kHz)	1,47 mH
Ref. Efficiency 1W@1m (half space)	91 dB

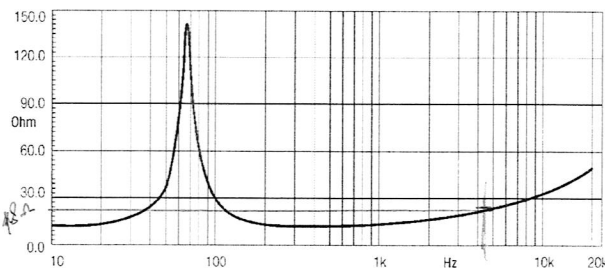
MOUNTING INFORMATION

Overall diameter	162 mm (6,38 in)
N. of mounting holes	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	9,5 mm (0,37 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 OF 6ND430 MADE ON 18 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 standard
- (2) Continuous power rating is measured in 18 lit enclosure tuned at 60 Hz using a 70 - 3000Hz 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 2,83V 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 100-1000 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 200 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 the gap depth.