ND1080

High Frequency Neodymium Driver

042108N110 8 ohm

Key features

- 109 dB 1W / 1m average sensitivity
- 1 inch exit
- 44 mm (1 3/4 inch) voice coil diameter
- 100 Watt continuous program
- Pure titanium dome
- ExCellent thermal exchange
- Patent pending phase plug
- Neodymium magnet assembly

• The ND1080 is designed for use in high level application when the highest quality are required. With a throat exit of 1 inch, the ND1080 is developed to match the new XT1085 and XT120 constant directivity horns.

• The ND1080, through the accurate study of the magnet assembly, achieves 2 Tesla flux in an extremely compact size.

• The new ND1080 phase plug (patent pending), is designed to improve response coherence and manufacturing consistency. The phase plug with short openings and high flare rate value, assures low distortion and remarkable improvements in high frequency reproduction.

• The titanium dome with its high inherent stiffness moves break-up modes above 16kHz. The suspension is designed to assure linear behaviour at a wide range of excursions with a 3rd harmonic distortion lower than 0.1%.

• 44mm (1 3/4 inch) voice coil in edge-wound copper clad aluminium wire assures very high reliability above 300°C.

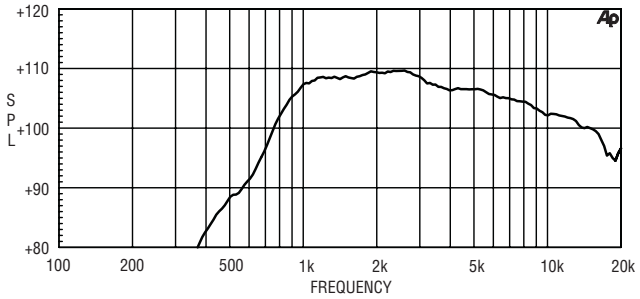
• Excellent heat dissipation is achieved by the heat sink on the cover tightly joint to the top plate.

• The copper shorting ring on the pole piece reduces inductance improving transient response and phase control at high frequencies.

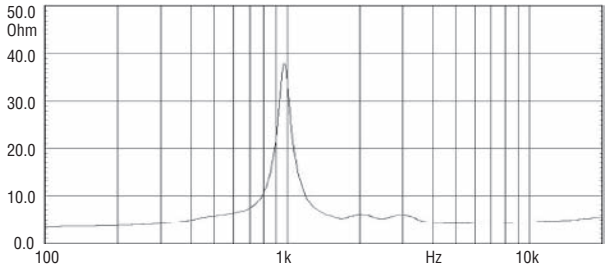
GENERAL SPECIFICATIONS		
THROAT DIAMETER	25,4 mm	(1 in)
RATED IMPEDANCE	8 ohms	
D.C. RESISTANCE	6,2 ohms	
MINIMUM IMPEDANCE	8 ohms at 4000 Hz	
POWER HANDLING (1600 - 20000 Hz)		
CONTINUOUS PINK NOISE	50 W above 1,6 kHz	(1)
CONTINUOUS PROGRAM	100 W above 1,6 kHz	(2)
SENSITIVITY (1W/1m)	109 dB	(3)
FREQUENCY RANGE	1600 Hz - 20 kHz	
RECOMM. CROSS. FREQUENCY	above 1600 Hz (12 dB /oct slope)	
DIAPHRAGM MATERIAL	Titanium	
VOICE COIL DIAMETER	44,4 mm	(1 3/4 in)
VOICE COIL WINDING MATERIAL	Edge-wound aluminum	
MAGNET MATERIAL	Neodymium	
FLUX DENSITY	2 T	
BL FACTOR	9,5 N/A	
POLARITY	Positive voltage on red terminal gives positive pressure in the throat	

MOUNTING INFORMATIONS		
Overall diameter	92 mm	(3,6 in)
N. of mounting holes	4 M6 holes 90° at Ø 76 mm (3 in)	
Bolt circle diameter	76 mm	(3 in)
Total depth	53 mm	(2,1 in)
Net weight	1,2 Kg	(2,6 lb)
Shipping weight	1,3 Kg	(2,9 lb)
CardBoard packing dimens.	104 x 115 x 63 mm	(4,1x4,5x2,5 in)

ND1080 MEASURED WITH 1W INPUT ON RATED IMPEDANCE AT 1 M DISTANCE ON AXIS FROM THE MOUTH OF STANDARD HORN XT 1085



IMPEDANCE CURVE OF ND1080



(1)Continuous pink noise power rating is tested with a pink noise input having a 6 dB crest factor for two hours duration within the specified range. Power calculated on minimum impedance.
(2) Program Power is defined as 3 dB greater than continuous pink noise but with 50% duty cycle.
(3) Sensitivity is measured at 1W input on rated impedance at 1m on axis from the mouth of XT1085 averaged between 1kHz and 4 kHz.