



Key features

- 107 dB 1W / 1m average sensitivity
- 1 inch exit
- 44 mm (1 3/4 inch) voice coil diameter
- 100 W Continuous program
- Pure Titanium dome
- Patent pending phase plug

- The HD1050, high frequency compression driver, is designed for use in sound systems where the highest quality is required. With a throat exit of 1 inch, the HD1050 is developed to match the new XT1085 and XT120 constant directivity horns.
- The compact magnet structure achieves 1,6 Tesla flux with extremely compact size.
- The new HD1050 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 over 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, is strongly coupled to nomex former assuring very high reliability above 300°C.

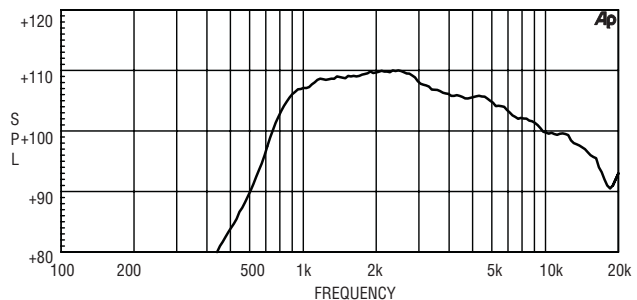
GENERAL SPECIFICATIONS

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)	107 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	Ceramic	
FLUX DENSITY	1,6 T	
BL FACTOR	8, N/A	
POLARITY	Positive voltage on red terminal gives positive pressure in the throat	

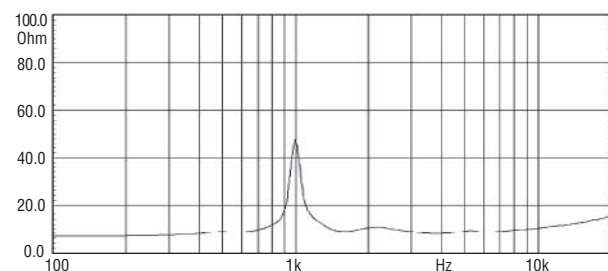
MOUNTING INFORMATION

Overall diameter	110 mm	(4,3 in)
N. of mounting holes	4 M6 holes 90° at Ø 76 mm (3 in)	
Bolt circle diameter	76 mm	(3 in)
Total depth	62 mm	(2,4 in)
Net weight	1,6 Kg	(3,5 lb)
Shipping weight	1,7 Kg	(3,8 lb)
CardBoard packing dimens.	122 x 133 x 72 mm	(4,8x5,2x2,8 in)

HD1050 MEASURED WITH 1W INPUT ON RATED IMPEDANCE AT 1 M DISTANCE ON AXIS FROM THE MOUTH OF THE XT1085



IMPEDANCE CURVE OF XD1050



(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.