NEODYMIUM COAXIAL LOUDSPEAKER

15HX500

LF 15" - 400 W - 97 dB
HF 90 W - 105 dB

NOMINAL SPECIFICATIONS

Nominal Diameter	380 mm (15 in)
Overall Diameter	393 mm (15.47 in)
Bolt Circle Diameter	374 mm (14.72 in)
Baffle Cutout Diameter	352 mm (13.86 in)
Depth	200 mm (7.87 in)
Flange and gasket Thickness	14 mm (0.55 in)
Net Weight	**6.1 kg (13.4 lb)**
Shipping Box	422 x 417 x 264 mm
(Single Carton Box)	(16.6 x 16.4 x 10.4 in)
Shipping Weight	7 kg (15.4 lb)

TECHNICAL PARAMETERS

	LF	HF
Nominal Impedance	8 Ω	8 Ω
Minimum Impedance	6.6 Ω	7.2 Ω
AES Power Handling **(1)**	400 W	90 W
Maximum Power Handling (2)	**800 W**	**180 W**
Sensitivity (1W/1m) (3)	**97 dB**	**105 dB**
Frequency Range	40÷3150 Hz	500÷20000 Hz
Voice Coil Diameter	**77 mm (3 in)**	**74 mm (2.9 in)**
Winding Material	**Cu**	**Al**
Former Material	Glass Fiber	Kapton
Winding Depth	21.8 mm (0.86 in)	3.5 mm (0.14 in)
Magnetic Gap Depth	**9 mm (0.35 in)**	**3.7 mm (0.15 in)**
Flux Density	1.2 T	2 T
Min. Crossover Frequency **(4)**	-	900 Hz
Dispersion Angle	-	100°
Diaphragm Material	-	**Titanium**
Diaphragm Shape	-	**Dome**
Magnet	Neodymium Ring	Neodymium Ring
Basket Material	Aluminum	-
Demodulation	Aluminum Ring	-
Cone Surround **(5)**	Triple Roll	-
NET Air Volume filled by Loudspeaker	3.4 dm³ (0.120 ft³)	-
Spider Profile	1x variable height waves	-

THIELE & SMALL PARAMETERS

Fs	40 Hz
Re [LF]	5 Ω
Re [HF]	5.6 Ω
Qes	0.29
Qms	5.5
Qts	0.28
Vas	150.1 dm³ (5.30 ft³)
Sd	864 cm² (133.94 in²)
Xmax **(6)**	9.40 mm
Xdamage **(7)**	18.5 mm
Mms	110.0 g
Bl	22.2 N/A
Le	0.84 mH
Mmd	81.3 g
Cms	0.14 mm/N
Rms	5.0 kg/s
η_o (Eta Zero)	3.32 %
EBP	138 Hz

NOTES:

(1) 2 Hours Test According to AES 2-1984 Rev. 2003
(2) Maximum power is defined as 3dB greater than nominal power
(3) HF sensitivity averaged within the frequency range
(4) 12 dB/oct or higher slope high-pass filter
(5) Treated Polycotton
(6) Xmax = [(Winding Depth - magnetic gap depth)/2] + (magnetic gap depth / 3)
(7) Maximum excursion before permanent damage