

12HX500

LF 12" - 400 W - 95 dB

HF 90 W - 105 dB



NOMINAL SPECIFICATIONS

Nominal Diameter	300 mm (12 in)
Overall Diameter	316 mm (12.44 in)
Bolt Circle Diameter	298.5 mm (11.75 in)
Baffle Cutout Diameter	280 mm (11.02 in)
Depth	175 mm (6.89 in)
Flange and gasket Thickness	12 mm (0.47 in)
Net Weight	5.5 kg (12.1 lb)
Shipping Box	350 x 346 x 216 mm
(Single Carton Box)	(13.8 x 13.6 x 8.5 in)
Shipping Weight	6.2 kg (13.7 lb)

- 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) $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$
 - (7) Maximum excursion before permanent damage

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)	95 dB	105 dB
Frequency Range	50÷4000 Hz	500÷20000 Hz
Voice Coil Diameter	77 mm (3 in)	74 mm (2.9 in)
Winding Material	Al	Al
Former Material	Glass Fiber	Kapton
Winding Depth	21.5 mm (0.85 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)	-	0.9 kHz
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	2.5 dm³ (0.088 ft³)	-
Spider Profile	1x variable height waves	-

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re [LF]	5.6 Ω
Re [HF]	5.6 Ω
Qes	0.39
Qms	7.3
Qts	0.37
Vas	57.8 dm³ (2.04 ft³)
Sd	540 cm² (83.62 in²)
Xmax (6)	9.25 mm
Xdamage (7)	18.5 mm
Mms	58.88 g
Bl	17.4 N/A
Le	0.57 mH
Mmd	44.7 g
Cms	0.14 mm/N
Rms	2.8 kg/s
η _e (Eta Zero)	2.48 %
EBP	141 Hz

