

12HX230

LF 12" - 250 W - 97 dB

HF 30 W - 107 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	282 mm (11.10 in)
Depth	162 mm (6.38 in)
Flange and gasket Thickness	12 mm (0.47 in)
Net Weight	5.2 kg (11.5 lb)
Shipping Box	350 x 346 x 190 mm
(Single Carton Box)	(13.8 x 13.6 x 8.5 in)
Shipping Weight	5.7 kg (12.6 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	6.4 Ω	7 Ω
AES Power Handling (1)	250 W	30 W
Maximum Power Handling (2)	500 W	60 W
Sensitivity (1W/1m) (3)	97 dB	107 dB
Frequency Range	55÷5000 Hz	1500÷20000 Hz
Voice Coil Diameter	65 mm (2.56 in)	37 mm (1.46 in)
Winding Material	Al	Al
Former Material	Glass Fiber	Kapton
Winding Depth	17.4 mm (0.69 in)	2.1 mm (0.08 in)
Magnetic Gap Depth	8 mm (0.31 in)	2.6 mm (0.10 in)
Flux Density	1.15 T	1.85 T
Min. Crossover Frequency (4)	-	1.7 kHz
Dispersion Angle	-	100°
Diaphragm Material	-	Ketone Polymer
Diaphragm Shape	-	Annular
Magnet	Ferrite Ring	Neodymium Ring
Basket Material	Aluminum	-
Demodulation	Aluminum Ring	-
Cone Surround (5)	Triple Roll	-
NET Air Volume filled by Loudspeaker	1.5 dm³ (0.053 ft³)	-
Spider Profile	1x variable height waves	-

THIELE & SMALL PARAMETERS

Fs	55 Hz
Re [LF]	5.3 Ω
Re [HF]	5.5 Ω
Qes	0.46
Qms	7.4
Qts	0.43
Vas	67.7 dm³ (2.39 ft³)
Sd	539 cm² (83.55 in²)
Xmax (6)	7.37 mm
Xdamage (7)	15.25 mm
Mms	50.2 g
Bl	14.1 N/A
Le	0.62 mH
Mmd	36.1 g
Cms	0.17 mm/N
Rms	2.3 kg/s
η _e (Eta Zero)	2.36 %
EBP	120 Hz

