



12FH500

12" - 500 W - 96 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	284 mm (11.18 in)
Depth	155.75 mm (6.13 in)
Flange and gasket Thickness	12.45 mm (0.49 in)
Net Weight	3.9 kg (8.6 lb)
Shipping Box	350 x 346 x 216 mm
(Single Carton Box)	(13.78 x 13.62 x 8.5 in)
Shipping Weight	5 kg (11.02 lb)

TECHNICAL PARAMETERS

Nominal Impedance	16 Ω
Minimum Impedance	14.4 Ω
AES Power Handling (1)	500 W
Maximum Power Handling (4)	1000 W
Sensitivity (1W/1m)	96 dB
Frequency Range	45 ÷ 4000 Hz
Voice Coil Diameter	77 mm (3 in)
Winding Material	Al
Former Material	Glass Fiber
Winding Depth	18 mm (0.71 in)
Magnetic Gap Depth	10.5 mm (0.41 in)
Flux Density	1.2 T
Magnet	Neodymium Slug
Basket Material	Aluminum
Demodulation	No
Cone Surround (5)	M-Roll
NET Air Volume filled by Loudspeaker	2.3 dm ³ (0.081 ft ³)
Spider Profile	1x variable height waves

THIELE & SMALL PARAMETERS

Fs	48 Hz
Re	12.8 Ω
Qes	0.38
Qms	11
Qts	0.36
Vas	66.6 dm ³ (2.35 ft ³)
Sd	487 cm ² (75.5 in ²)
Xmax (2)	7.25 mm
Xdamage (3)	16 mm
Mms	55.5 g
Bl	23.8 N/A
Le	1.2 mH
Mmd	49.3 g
Cms	0.2 mm/N
Rms	1.52 kg/s
η _o (Eta Zero)	1.9 %
EBP	126 Hz

NOTE:

- 2 Hours Test According to AES 2-1984 Rev. 2003
- $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$
- Maximum excursion before permanent damage
- Maximum power is defined as 3dB greater than nominal power
- Treated Polycotton

PATENT IT2006/000327

