



# 12FH500

12" - 500 W - 97 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)
<b>Net Weight</b>	<b>3.9 kg (8.6 lb)</b>
Shipping Box	350 x 346 x 216 mm
(Single Carton Box)	(13.8 x 13.6 x 8.5 in)
Shipping Weight	4.7 kg (10.4 lb)

## TECHNICAL PARAMETERS

Nominal Impedance	4 Ω
Minimum Impedance	4 Ω
AES Power Handling (1)	500 W
<b>Maximum Power Handling (4)</b>	<b>1000 W</b>
<b>Sensitivity (1W/1m)</b>	<b>97 dB</b>
Frequency Range	45 ÷ 4000 Hz
<b>Voice Coil Diameter</b>	<b>77 mm (3 in)</b>
Winding Material	Al
Former Material	Glass Fiber
Winding Depth	18 mm (0.71 in)
<b>Magnetic Gap Depth</b>	<b>10.5 mm (0.41 in)</b>
Flux Density	1.2 T
<b>Magnet</b>	<b>Neodymium Slug</b>
Basket Material	Aluminum
Demodulation	No
Cone Surround (5)	M-Roll
NET Air Volume filled by Loudspeaker	2.3 dm <sup>3</sup> (0.081 ft <sup>3</sup> )
Spider Profile	1x variable height waves

## THIELE & SMALL PARAMETERS

Fs	45 Hz
Re	3.3 Ω
Qes	0.23
Qms	9.09
Qts	0.23
Vas	69.1 dm <sup>3</sup> (2.44 ft <sup>3</sup> )
Sd	487 cm <sup>2</sup> (75.49 in <sup>2</sup> )
Xmax (2)	7.25 mm
Xdamage (3)	16 mm
Mms	60.9 g
Bl	15.5 N/A
Le	0.63 mH
Mmd	54.7 g
Cms	0.20 mm/N
Rms	1.89 kg/s
η <sub>o</sub> (Eta Zero)	2.58 %
EBP	196 Hz

**NOTE:**  
 (1) 2 Hours Test According to AES 2-1984 Rev. 2003  
 (2)  $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$   
 (3) Maximum excursion before permanent damage  
 (4) Maximum power is defined as 3dB greater than nominal power  
 (5) Treated Polycotton  
 PATENT IT2006/000327

