PROFESSIONAL LOUDSPEAKERS

# 12FH500

12" - 500 W - 97 dB - 8 Ohm



## 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 (Single Carton Box) | 350 x 346 x 216 mm (13.8 x 13.6 x 8.5 in) |
| Shipping Weight | 5 kg (11.0 lb) |

## PART NUMBER

| | |
|---|---|
| Push Terminals - 8 Ohm Version | 03003925 |
| Recone Kit - 8 Ohm Version | R3003925 |

## TECHNICAL PARAMETERS

| | |
|---|---|
| Nominal Impedance | 8 Ohm |
| Minimum Impedance | 6.4 Ohm |
| AES Power Handling **(1)** | 500 W |
| **Maximum Power Handling (2)** | **1000 W** |
| **Sensitivity (1W/1m)** | **97 dB** |
| Frequency Range | 45÷4000 Hz |
| **Voice Coil Diameter** | **77 mm (3 in)** |
| Winding Material | Al |
| Former Material | Glass Fiber |
| Winding Depth | 18.5 mm (0.73 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 **(3)** | 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 | 45 Hz |
| Re | 5.1 Ohm |
| Qes | 0.26 |
| Qms | 6.9 |
| Qts | 0.25 |
| Vas | 87.3 dm^3 (3.08 ft^3) |
| Sd | 529 cm^2 (82.00 in^2) |
| Xmax **(4)** | 7.50 mm |
| Xdamage **(5)** | 21.55 mm |
| Mms | 56.0 g |
| Bl | 17.5 N/A |
| Le | 0.83 mH |
| Mmd | 42.2 g |
| Cms | 0.22 mm/N |
| Rms | 2.3 kg/s |
| Eta Zero | 2.93 % |
| EBP | 173 Hz |

### NOTES:

**PATENTED IT 2006/000327**

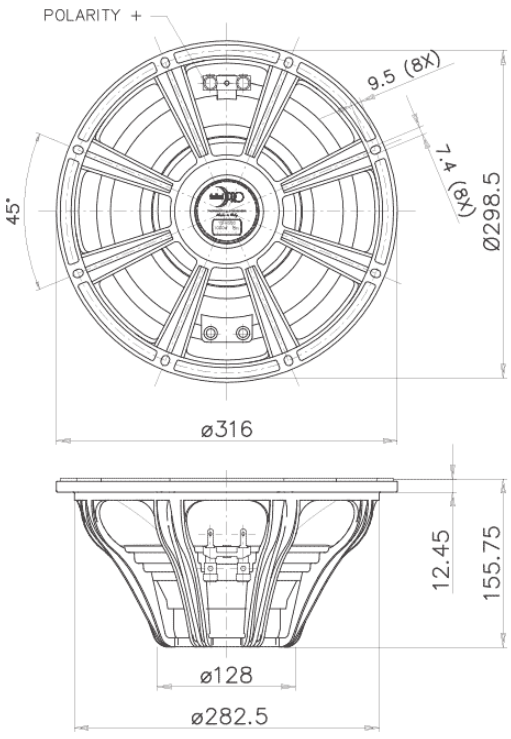
**(1)** 2 Hours Test According to AES 2-1984 Rev. 2003

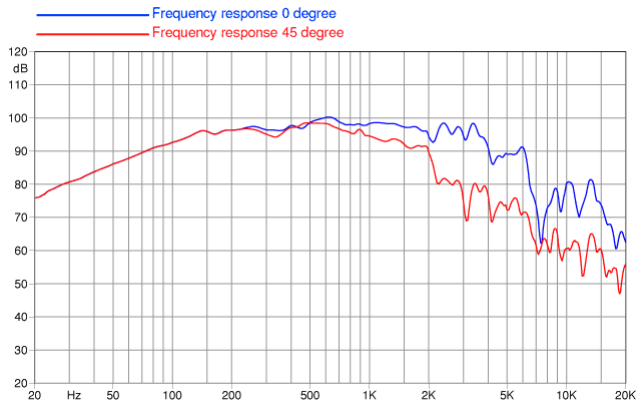
**(2)** Maximum power is defined as 3dB greater than nominal power.

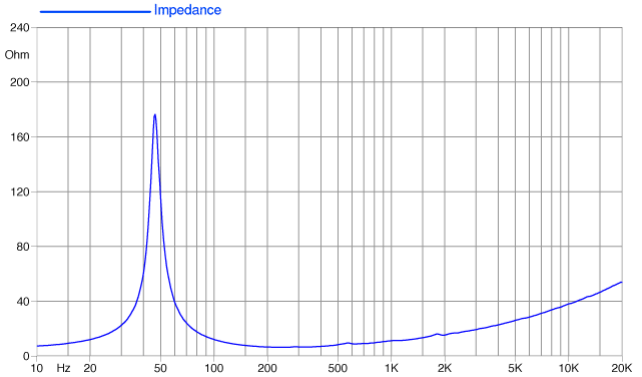
**(3)** Treated Polycotton

**(4)** Xmax= [(winding depth - magnetic gap depth)/2] + (magnetic gap depth/3)

**(5)** Maximum excursion before permanent damage





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