

# 10FH500

10" - 500 W - 95 dB - 16 Ohm



## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nominal Diameter                 | 250 mm (10 in)                            |
| Overall Diameter                 | 261 mm (10.28 in)                         |
| Bolt Circle Diameter             | 246 mm (9.69 in)                          |
| Baffle Cutout Diameter           | 232 mm (9.13 in)                          |
| Depth                            | 141.3 mm (5.56 in)                        |
| Flange and Gasket Thickness      | 12.5 mm (0.49 in)                         |
| <b>Net Weight</b>                | <b>3.4 kg (7.5 lb)</b>                    |
| Shipping Box (Single Carton Box) | 294 x 290 x 203 mm (11.6 x 11.4 x 8.0 in) |
| Shipping Weight                  | 4 kg (8.8 lb)                             |

## PART NUMBER

|                                 |          |
|---------------------------------|----------|
| Push Terminals - 16 Ohm Version | 02504116 |
|---------------------------------|----------|

## NOTES:

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

## TECHNICAL PARAMETERS

|                                      |  |
|--------------------------------------|--|
| Nominal Impedance                    | 16 Ohm                                       |
| Minimum Impedance                    | 14.4 Ohm                                     |
| AES Power Handling (1)               | 500 W  |
| <b>Maximum Power Handling (2)</b>    | <b>1000 W</b>                                |
| <b>Sensitivity (1W/1m)</b>           | <b>95 dB</b>                                 |
| Frequency Range                      | 60-4000 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  |
| Magnet                               | Neodymium Slug                               |
| Basket Material                      | Aluminum                                     |
| Demodulation                         | No   |
| Cone Surround (3)                    | Triple Roll                                  |
| NET Air Volume filled by Loudspeaker | 1.6 dm <sup>3</sup> (0.057 ft <sup>3</sup> ) |
| Spider Profile                       | 1x constant height waves                     |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 65 Hz  |
| Re          | 12.8 Ohm                                     |
| Qes         | 0.43   |
| Qms         | 5.7  |
| Qts         | 0.42   |
| Vas         | 19.2 dm <sup>3</sup> (0.68 ft <sup>3</sup> ) |
| Sd          | 328 cm <sup>2</sup> (50.84 in <sup>2</sup> ) |
| Xmax (4)    | 7.25 mm                                      |
| Xdamage (5) | 12.5 mm                                      |
| Mms         | 47.5 g                                       |
| Bl          | 23.8 N/A                                     |
| Le          | 1.37 mH                                      |
| Mmd         | 44.1 g                                       |
| Cms         | 0.12 mm/N                                    |
| Rms         | 3.4 kg/s                                     |
| Eta Zero    | 1.17 %                                       |
| EBP         | 151 Hz                                       |

