

# 8FE300



8" - 250 W - 95 dB - 16 Ohm

## NOMINAL SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| Nominal Diameter                 | 200 mm (8 in)                              |
| Overall Diameter                 | 209 mm (8.23 in)                           |
| Bolt Circle Diameter             | 197.5 mm (7.78 in)                         |
| Baffle Cutout Diameter           | 183 mm (7.20 in)                           |
| Depth                            | 95 mm (3.74 in)                            |
| Flange and Gasket Thickness      | 7 mm (0.28 in)                             |
| <b>Net Weight</b>                | <b>3.04 kg (6.7 lb)</b>                    |
| Shipping Box (Single Carton Box) | 227 x 224 x 113 mm (8.93 x 8.81 x 4.44 in) |
| Shipping Weight                  | 3.2 kg (7.1 lb)                            |

## PART NUMBER

|                                   |          |
|-----------------------------------|----------|
| Faston Terminals - 16 Ohm Version | 02004420 |
|-----------------------------------|----------|

## 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                    | 13 Ohm                                       |
| AES Power Handling (1)               | 250 W  |
| <b>Maximum Power Handling (2)</b>    | <b>500 W</b>                                 |
| <b>Sensitivity (1W/1m)</b>           | <b>95 dB</b>                                 |
| Frequency Range                      | 80-5000 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>52 mm (2.05 in)</b>                       |
| Winding Material                     | Al   |
| Former Material                      | Glass Fiber                                  |
| Winding Depth                        | 13.7 mm (0.54 in)                            |
| <b>Magnetic Gap Depth</b>            | <b>8 mm (0.31 in)</b>                        |
| Flux Density                         | 1.1 T  |
| Magnet                               | Ferrite Ring                                 |
| Basket Material                      | Steel  |
| Demodulation                         | No   |
| Cone Surround (3)                    | Triple Roll                                  |
| NET Air Volume filled by Loudspeaker | 0.7 dm <sup>3</sup> (0.025 ft <sup>3</sup> ) |
| Spider Profile                       | 1x variable height waves                     |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 70 Hz  |
| Re          | 11.8 Ohm                                     |
| Qes         | 0.70   |
| Qms         | 12.6   |
| Qts         | 0.66   |
| Vas         | 14.4 dm <sup>3</sup> (0.51 ft <sup>3</sup> ) |
| Sd          | 223 cm <sup>2</sup> (34.57 in <sup>2</sup> ) |
| Xmax (4)    | 5.52 mm                                      |
| Xdamage (5) | 11.6 mm                                      |
| Mms         | 25.0 g                                       |
| Bl          | 13.6 N/A                                     |
| Le          | 0.82 mH                                      |
| Mmd         | 21.2 g                                       |
| Cms         | 0.21 mm/N                                    |
| Rms         | 0.9 kg/s                                     |
| Eta Zero    | 0.68 %                                       |
| EBP         | 100 Hz                                       |

