

# 5FE100

5" - 80 W - 88 dB - 8 Ohm



## NOMINAL SPECIFICATIONS

|                                               |                                              |
|-----------------------------------------------|----------------------------------------------|
| Nominal Diameter                              | 130 mm (5 in)                                |
| Overall Diameter                              | 144.8/124.5 mm (5.7/4.9 in)                  |
| Bolt Circle Diameter                          | 133 mm (5.24 in)                             |
| Baffle Cutout Diameter                        | 114 mm (4.49 in)                             |
| Depth                                         | 71.5 mm (2.81 in)                            |
| Flange and Gasket Thickness                   | 6.5 mm (0.25 in)                             |
| <b>Net Weight</b>                             | <b>1.12 Kg (2.5 lb)</b>                      |
| Shipping Box<br>(Single Carton Box - 8 units) | 302 x 275 x 186 mm<br>(11.9 x 10.8 x 7.3 in) |
| Shipping Weight (8 units)                     | 10.1 Kg (22.3 lb)                            |

## PART NUMBER

|                                  |          |
|----------------------------------|----------|
| Faston Terminals - 8 Ohm Version | 01303917 |
|----------------------------------|----------|

## NOTES:

Packaged and sold in multiples of 8 units

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

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

(3) NBR (Rubber)

(4)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$

(5) Maximum excursion before permanent damage

## TECHNICAL PARAMETERS

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Nominal Impedance                    | 8 Ohm                                        |
| Minimum Impedance                    | 6.3 Ohm                                      |
| AES Power Handling (1)               | 80 W                                         |
| <b>Maximum Power Handling (2)</b>    | <b>160 W</b>                                 |
| <b>Sensitivity (1W/1m)</b>           | <b>88 dB</b>                                 |
| Frequency Range                      | 63-6300 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>32 mm (1.26 in)</b>                       |
| Winding Material                     | Cu                                           |
| Former Material                      | Kapton                                       |
| Winding Depth                        | 12.5 mm (0.49 in)                            |
| <b>Magnetic Gap Depth</b>            | <b>6 mm (0.24 in)</b>                        |
| Flux Density                         | 1 T                                          |
| Magnet                               | Ferrite Ring                                 |
| Basket Material                      | Steel                                        |
| Demodulation                         | No                                           |
| Cone Surround (3)                    | Half Roll                                    |
| NET Air Volume filled by Loudspeaker | 0.3 dm <sup>3</sup> (0.011 ft <sup>3</sup> ) |
| Spider Profile                       | 1x constant height waves                     |

## THIELE & SMALL PARAMETERS

|             |                                               |
|-------------|-----------------------------------------------|
| Fs          | 65 Hz                                         |
| Re          | 5.4 Ohm                                       |
| Qes         | 0.48                                          |
| Qms         | 8.2                                           |
| Qts         | 0.46                                          |
| Vas         | 5.2 dm <sup>3</sup> (0.18 ft <sup>3</sup> )   |
| Sd          | 79.8 cm <sup>2</sup> (12.37 in <sup>2</sup> ) |
| Xmax (4)    | 5.25 mm                                       |
| Xdamage (5) | 9.5 mm                                        |
| Mms         | 10.5 g                                        |
| Bl          | 6.9 N/A                                       |
| Le          | 0.53 mH                                       |
| Mmd         | 10.1 g                                        |
| Cms         | 0.57 mm/N                                     |
| Rms         | 0.52 Kg/s                                     |
| Eta Zero    | 0.28 %                                        |
| EBP         | 135 Hz                                        |

