

# 5FE120

5" - 80 W - 89 dB - 16 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>1.11 kg (2.5 lb)</b>                   |
| Shipping Box (Single Carton Box - 8 units) | 302 x 275 x 186 mm (11.9 x 10.8 x 7.3 in) |
| Shipping Weight (8 units)                  | 9.6 kg (21.2 lb)                          |

## PART NUMBER

|                                  |          |
|----------------------------------|----------|
| Faston Terminals - 8 Ohm Version | 01304352 |
|----------------------------------|----------|

## NOTES:

- (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                    | 16 Ohm                                       |
| Minimum Impedance                    | 13.2 Ohm                                     |
| AES Power Handling (1)               | 80 W   |
| <b>Maximum Power Handling (2)</b>    | <b>160 W</b>                                 |
| <b>Sensitivity (1W/1m)</b>           | <b>89 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                         | Aluminum Ring                                |
| 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          | 68 Hz   |
| Re          | 11.8 Ohm                                      |
| Qes         | 0.66  |
| Qms         | 8.6   |
| Qts         | 0.61  |
| Vas         | 5.7 dm <sup>3</sup> (0.20 ft <sup>3</sup> )   |
| Sd          | 84.3 cm <sup>2</sup> (13.07 in <sup>2</sup> ) |
| Xmax (4)    | 5.25 mm                                       |
| Xdamage (5) | 9.5 mm  |
| Mms         | 9.5 g   |
| Bl          | 9 N/A   |
| Le          | 0.76 mH                                       |
| Mmd         | 8.7 g   |
| Cms         | 0.57 mm/N                                     |
| Rms         | 0.5 kg/s                                      |
| Eta Zero    | 0.29 %  |
| EBP         | 103 Hz  |

