

# 3FE22



3" - 20 W - 91 dB - 16 Ohm

## NOMINAL SPECIFICATIONS

|                                |                            |
|--------------------------------|----------------------------|
| Nominal Diameter               | 80 mm (3 in)               |
| Overall Diameter               | 105.6/81 mm (4.16/3.19 in) |
| Bolt Circle Diameter           | 92 mm (3.62 in)            |
| Baffle Cutout Diameter         | 73.6 mm (2.90 in)          |
| Depth                          | 46 mm (1.81 in)            |
| Flange and Gasket Thickness    | 6.5 mm (0.26 in)           |
| <b>Net Weight</b>              | <b>240 g (0.5 lb)</b>      |
| Shipping Box                   | 285 x 285 x 255 mm         |
| (Single Carton Box - 36 units) | (11.2 x 11.2 x 10.0 in)    |
| Shipping Weight (36 units)     | 10 Kg (22.0 lb)            |

## PART NUMBER

|                                   |          |
|-----------------------------------|----------|
| Faston Terminals - 16 Ohm Version | 00804099 |
|-----------------------------------|----------|

## NOTES:

- Packaged and sold in multiples of 36 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                    | 16 Ohm                                         |
| Minimum Impedance                    | 13.5 Ohm                                       |
| AES Power Handling (1)               | 20 W                                           |
| <b>Maximum Power Handling (2)</b>    | <b>40 W</b>                                    |
| <b>Sensitivity (1W/1m)</b>           | <b>91 dB</b>                                   |
| Frequency Range                      | 100-20000 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>19 mm (0.75 in)</b>                         |
| Winding Material                     | Al                                             |
| Former Material                      | Kapton                                         |
| Winding Depth                        | 5 mm (0.20 in)                                 |
| <b>Magnetic Gap Depth</b>            | <b>4 mm (0.16 in)</b>                          |
| Flux Density                         | 1.4 T                                          |
| Magnet                               | Neodymium Ring                                 |
| Basket Material                      | Steel                                          |
| Demodulation                         | No                                             |
| Cone Surround (3)                    | Half Roll                                      |
| NET Air Volume filled by Loudspeaker | 0.060 dm <sup>3</sup> (0.002 ft <sup>3</sup> ) |
| Spider Profile                       | 1x constant height waves                       |

## THIELE & SMALL PARAMETERS

|             |                                              |
|-------------|----------------------------------------------|
| Fs          | 110 Hz                                       |
| Re          | 12.3 Ohm                                     |
| Qes         | 0.64                                         |
| Qms         | 4.6                                          |
| Qts         | 0.56                                         |
| Vas         | 1.19 dm <sup>3</sup> (0.04 ft <sup>3</sup> ) |
| Sd          | 30.2 cm <sup>2</sup> (4.68 in <sup>2</sup> ) |
| Xmax (4)    | 1.83 mm                                      |
| Xdamage (5) | 7.3 mm                                       |
| Mms         | 2.3 g                                        |
| Bl          | 5.5 N/A                                      |
| Le          | 0.1 mH                                       |
| Mmd         | 2.2 g                                        |
| Cms         | 0.92 mm/N                                    |
| Rms         | 0.34 Kg/s                                    |
| Eta Zero    | 0.24 %                                       |
| EBP         | 172 Hz                                       |

