

# 4FE42



4" - 40 W - 94 dB - 8 Ohm

## NOMINAL SPECIFICATIONS

|                                               |                                            |
|-----------------------------------------------|--------------------------------------------|
| Nominal Diameter                              | 100 mm (4 in)                              |
| Overall Diameter                              | 129.85/100.5 mm (5.11/3.96 in)             |
| Bolt Circle Diameter                          | 115.26 mm (4.54 in)                        |
| Baffle Cutout Diameter                        | 91.5 mm (3.60 in)                          |
| Depth                                         | 54.1 mm (2.13 in)                          |
| Flange and Gasket Thickness                   | 7 mm (0.28 in)                             |
| <b>Net Weight</b>                             | <b>390 g (0.9 lb)</b>                      |
| Shipping Box<br>(Single Carton Box - 8 units) | 225 x 225 x 150 mm<br>(8.9 x 8.9 x 5.9 in) |
| Shipping Weight (8 units)                     | 3.6 kg (7.9 lb)                            |

## PART NUMBER

|                                  |          |
|----------------------------------|----------|
| Faston Terminals - 8 Ohm Version | 01004370 |
|----------------------------------|----------|

## 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                    | 6.2 Ohm                                        |
| AES Power Handling (1)               | 40 W                                           |
| <b>Maximum Power Handling (2)</b>    | <b>80 W</b>                                    |
| <b>Sensitivity (1W/1m)</b>           | <b>94 dB</b>                                   |
| Frequency Range                      | 100-20000 Hz                                   |
| <b>Voice Coil Diameter</b>           | <b>25 mm (0.98 in)</b>                         |
| Winding Material                     | Al                                             |
| Former Material                      | Kapton                                         |
| Winding Depth                        | 7 mm (0.28 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                         | Copper Cap                                     |
| Cone Surround (3)                    | Half Roll                                      |
| NET Air Volume filled by Loudspeaker | 0.105 dm <sup>3</sup> (0.004 ft <sup>3</sup> ) |
| Spider Profile                       | 1x constant height waves                       |

## THIELE & SMALL PARAMETERS

|             |                                              |
|-------------|----------------------------------------------|
| Fs          | 110 Hz                                       |
| Re          | 5.4 Ohm                                      |
| Qes         | 0.50                                         |
| Qms         | 8.0                                          |
| Qts         | 0.47                                         |
| Vas         | 1.9 dm <sup>3</sup> (0.07 ft <sup>3</sup> )  |
| Sd          | 50.9 cm <sup>2</sup> (7.89 in <sup>2</sup> ) |
| Xmax (4)    | 2.83 mm                                      |
| Xdamage (5) | 5.1 mm                                       |
| Mms         | 4.0 g                                        |
| Bl          | 6 N/A                                        |
| Le          | 0.07 mH                                      |
| Mmd         | 3.6 g                                        |
| Cms         | 0.52 mm/N                                    |
| Rms         | 0.3 kg/s                                     |
| Eta Zero    | 0.59 %                                       |
| EBP         | 220 Hz                                       |

