

# 5HX140

**LF 5" - 120 W - 91 dB - 8 Ohm**  
**HF 15 W - 101 dB - 8 Ohm**



## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nom. Diameter                    | 130 mm (5 in)                           |
| Overall Diameter                 | 150/128.2 mm (5.91/5.05 in)             |
| Bolt Circle Diameter             | 139 mm (5.47 in)                        |
| Baffle Cutout Diameter           | 118 mm (4.65 in)                        |
| Depth                            | 97 mm (3.82 in)                         |
| Flange and Gasket Thickness      | 9 mm (0.35 in)                          |
| <b>Net Weight</b>                | <b>1.22 kg (2.7 lb)</b>                 |
| Shipping Box (Single Carton Box) | 185 x 170 x 122 mm (7.3 x 6.7 x 4.8 in) |
| Shipping Weight                  | 1.4 kg (3.1 lb)                         |

## PART NUMBER

|                                  |          |
|----------------------------------|----------|
| Faston Terminals - 8 Ohm Version | 01304366 |
|----------------------------------|----------|

## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) HF Sensitivity averaged within the frequency range
- (4) 12 dB/oct or higher slope high-pass filter
- (5) Treated Polycotton
- (6)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$
- (7) Maximum excursion before permanent damage

## TECHNICAL PARAMETERS

|                                      | LF  | HF                     |
|--------------------------------------|---|------------------------|
| Nom. Impedance                       | 8 Ohm   | 8 Ohm                  |
| Minimum Impedance                    | 6.7 Ohm                                       | 6.6 Ohm                |
| AES Power Handling (1)               | 120 W   | 15 W                   |
| <b>Max Power Handling (2)</b>        | <b>240 W</b>                                  | <b>30 W</b>            |
| <b>Sensitivity (1W/1m) (3)</b>       | <b>91 dB</b>                                  | <b>101 dB</b>          |
| Frequency Range                      | 100-8000 Hz                                   | 1500-18000 Hz          |
| <b>Voice Coil Diameter</b>           | <b>37 mm (1.46 in)</b>                        | <b>25 mm (0.98 in)</b> |
| <b>Winding Material</b>              | <b>Al</b>                                     | <b>Al</b>              |
| Former Material                      | Kapton  | Kapton                 |
| Winding Depth                        | 12.2 mm (0.48 in)                             | 1.7 mm (0.07 in)       |
| <b>Magnetic Gap Depth</b>            | <b>6 mm (0.24 in)</b>                         | <b>2 mm (0.08 in)</b>  |
| Flux Density                         | 1.3 T   | 1.3 T                  |
| Min. Cross. Freq. (4)                | -   | 1.7 kHz                |
| Dispersion Angle                     | -   | 90°                    |
| <b>Diaphragm Material</b>            | -   | <b>Ketone Polymer</b>  |
| <b>Diaphragm Shape</b>               | -   | <b>Dome</b>            |
| Magnet                               | Neodymium Ring                                | Neodymium Ring         |
| Basket Material                      | Aluminum                                      | -                      |
| Demodulation                         | Aluminum Ring                                 | -                      |
| Cone Surround (5)                    | M-Roll  | -                      |
| NET Air Volume filled by Loudspeaker | 0.34 dm <sup>3</sup> (0.012 ft <sup>3</sup> ) | -                      |
| Spider Profile                       | 1x constant height waves                      | -                      |

## THIELE & SMALL PARAMETERS

|             |   |
|-------------|---|
| Fs          | 100 Hz                                      |
| Re [LF]     | 5.9 Ohm                                     |
| Re [HF]     | 6 Ohm                                       |
| Qes         | 0.45  |
| Qms         | 4.8   |
| Qts         | 0.41  |
| Vas         | 3.4 dm <sup>3</sup> (0.12 ft <sup>3</sup> ) |
| Sd          | 85 cm <sup>2</sup> (13.18 in <sup>2</sup> ) |
| Xmax (6)    | 5.10 mm                                     |
| Xdamage (7) | 16.85 mm                                    |
| Mms         | 7.5 g                                       |
| Bl          | 8 N/A                                       |
| Le          | 0.29 mH                                     |
| Mmd         | 6.6 g                                       |
| Cms         | 0.34 mm/N                                   |
| Rms         | 1.0 kg/s                                    |
| Eta Zero    | 0.76 %                                      |
| EBP         | 222 Hz                                      |

