

# 5HX220



**LF 5" - 150 W - 91 dB - 8 Ohm**  
**HF 30 W - 104 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                            | 90 mm (3.54 in)                         |
| Flange and Gasket Thickness      | 9 mm (0.35 in)                          |
| <b>Net Weight</b>                | <b>1.04 kg (2.3 lb)</b>                 |
| Shipping Box (Single Carton Box) | 185 x 170 x 122 mm (7.3 x 6.7 x 4.8 in) |
| Shipping Weight                  | 1.2 kg (2.6 lb)                         |

## PART NUMBER

|                                  |          |
|----------------------------------|----------|
| Faston Terminals - 8 Ohm Version | 01304454 |
|----------------------------------|----------|

## 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                    | 6.4 Ohm                                      | 7 Ohm                   |
| AES Power Handling (1)               | 150 W  | 30 W                    |
| <b>Max Power Handling (2)</b>        | <b>300 W</b>                                 | <b>60 W</b>             |
| <b>Sensitivity (1W/1m) (3)</b>       | <b>91 dB</b>                                 | <b>104 dB</b>           |
| Frequency Range                      | 125-5000 Hz                                  | 1700-20000 Hz           |
| <b>Voice Coil Diameter</b>           | <b>37 mm (1.46 in)</b>                       | <b>37 mm (1.46 in)</b>  |
| <b>Winding Material</b>              | <b>Al</b>                                    | <b>Al</b>               |
| Former Material                      | Glass Fiber                                  | Kapton                  |
| Winding Depth                        | 10.8 mm (0.43 in)                            | 2.3 mm (0.09 in)        |
| <b>Magnetic Gap Depth</b>            | <b>5 mm (0.20 in)</b>                        | <b>2.6 mm (0.10 in)</b> |
| Flux Density                         | 1.1 T  | 1.6 T                   |
| Min. Cross. Freq. (4)                | -  | 1.7 kHz                 |
| Dispersion Angle                     | -  | 80°                     |
| <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)                    | Triple 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          | 135 Hz  |
| Re [LF]     | 5.8 Ohm                                       |
| Re [HF]     | 5.5 Ohm                                       |
| Qes         | 0.63  |
| Qms         | 10.2  |
| Qts         | 0.59  |
| Vas         | 2.2 dm <sup>3</sup> (0.08 ft <sup>3</sup> )   |
| Sd          | 90.6 cm <sup>2</sup> (14.04 in <sup>2</sup> ) |
| Xmax (6)    | 4.57 mm                                       |
| Xdamage (7) | 8 mm  |
| Mms         | 7.3 g   |
| Bl          | 7.7 N/A                                       |
| Le          | 0.2 mH  |
| Mmd         | 6.3 g   |
| Cms         | 0.19 mm/N                                     |
| Rms         | 0.6 kg/s                                      |
| Eta Zero    | 0.86 %  |
| EBP         | 214 Hz  |

