

# 8HX150



**LF 8" - 250 W - 94 dB - 8 Ohm**  
**HF 15 W - 104 dB - 8 Ohm**

## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nom. Diameter                    | 200 mm (8 in)                           |
| Overall Diameter                 | 223.75/207.9 mm (8.81/8.18 in)          |
| Bolt Circle Diameter             | 210 mm (8.27 in)                        |
| Baffle Cutout Diameter           | 183 mm (7.20 in)                        |
| Depth                            | 111.7 mm (4.40 in)                      |
| Flange and Gasket Thickness      | 10.7 mm (0.42 in)                       |
| <b>Net Weight</b>                | <b>3.6 kg (7.9 lb)</b>                  |
| Shipping Box (Single Carton Box) | 227 x 224 x 132 mm (8.9 x 8.8 x 5.2 in) |
| Shipping Weight                  | 4.3 kg (9.5 lb)                         |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 02004050 |
|--------------------------------|----------|

## 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                    | 6.6 Ohm                                       | 6.3 Ohm               |
| AES Power Handling (1)               | 250 W   | 15 W                  |
| <b>Max Power Handling (2)</b>        | <b>500 W</b>                                  | <b>30 W</b>           |
| <b>Sensitivity (1W/1m) (3)</b>       | <b>94 dB</b>                                  | <b>104 dB</b>         |
| Frequency Range                      | 75-4000 Hz                                    | 1500-18000 Hz         |
| <b>Voice Coil Diameter</b>           | <b>65 mm (2.56 in)</b>                        | <b>25 mm (1 in)</b>   |
| <b>Winding Material</b>              | <b>Al</b>                                     | <b>Al</b>             |
| Former Material                      | Glass Fiber                                   | Kapton                |
| Winding Depth                        | 12.5 mm (0.49 in)                             | 1.7 mm (0.07 in)      |
| <b>Magnetic Gap Depth</b>            | <b>8 mm (0.31 in)</b>                         | <b>2 mm (0.08 in)</b> |
| Flux Density                         | 1 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                               | Ferrite Ring                                  | Neodymium Ring        |
| Basket Material                      | Aluminum                                      | -                     |
| Demodulation                         | No  | -                     |
| Cone Surround (5)                    | Triple Roll                                   | -                     |
| NET Air Volume filled by Loudspeaker | 0.96 dm <sup>3</sup> (0.034 ft <sup>3</sup> ) | -                     |
| Spider Profile                       | 1x constant height waves                      | -                     |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 76 Hz  |
| Re [LF]     | 5.5 Ohm  |
| Re [HF]     | 6 Ohm  |
| Qes         | 0.43   |
| Qms         | 9.5  |
| Qts         | 0.41   |
| Vas         | 13.0 dm <sup>3</sup> (0.46 ft <sup>3</sup> )   |
| Sd          | 217.2 cm <sup>2</sup> (33.67 in <sup>2</sup> ) |
| Xmax (6)    | 4.92 mm  |
| Xdamage (7) | 10.25 mm                                       |
| Mms         | 22.3 g   |
| Bl          | 11.6 N/A                                       |
| Le          | 0.51 mH  |
| Mmd         | 18.7 g   |
| Cms         | 0.20 mm/N                                      |
| Rms         | 1.1 kg/s                                       |
| Eta Zero    | 1.27 %   |
| EBP         | 177 Hz   |

