

# 15HX500



**LF 15" - 400 W - 97 dB - 8 Ohm**

**HF 90 W - 105 dB - 8 Ohm**

**NOMINAL SPECIFICATIONS**

|                                  |  |
|----------------------------------|--|
| Nom. Diameter                    | 380 mm (15 in)                             |
| Overall Diameter                 | 393 mm (15.47 in)                          |
| Bolt Circle Diameter             | 374 mm (14.72 in)                          |
| Baffle Cutout Diameter           | 352 mm (13.86 in)                          |
| Depth                            | 200 mm (7.87 in)                           |
| Flange and Gasket Thickness      | 14 mm (0.55 in)                            |
| <b>Net Weight</b>                | <b>6.1 kg (13.4 lb)</b>                    |
| Shipping Box (Single Carton Box) | 422 x 417 x 264 mm (16.6 x 16.4 x 10.4 in) |
| Shipping Weight                  | 7 kg (15.4 lb)                             |

**PART NUMBER**

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 03804355 |
|--------------------------------|----------|

**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                                      | 7.2 Ohm                 |
| AES Power Handling (1)               | 400 W  | 90 W                    |
| <b>Max Power Handling (2)</b>        | <b>800 W</b>                                 | <b>180 W</b>            |
| <b>Sensitivity (1W/1m) (3)</b>       | <b>97 dB</b>                                 | <b>105 dB</b>           |
| Frequency Range                      | 40-3150 Hz                                   | 500-20000 Hz            |
| <b>Voice Coil Diameter</b>           | <b>77 mm (3.03 in)</b>                       | <b>74 mm (2.91 in)</b>  |
| <b>Winding Material</b>              | <b>Cu</b>                                    | <b>Al</b>               |
| Former Material                      | Glass Fiber                                  | Kapton                  |
| Winding Depth                        | 21.8 mm (0.86 in)                            | 3.5 mm (0.14 in)        |
| <b>Magnetic Gap Depth</b>            | <b>9 mm (0.35 in)</b>                        | <b>3.7 mm (0.15 in)</b> |
| Flux Density                         | 1.2 T  | 2 T                     |
| Min. Cross. Freq. (4)                | -  | 900 Hz                  |
| Dispersion Angle                     | -  | 100°                    |
| <b>Diaphragm Material</b>            | -  | <b>Titanium</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 | 3.4 dm <sup>3</sup> (0.120 ft <sup>3</sup> ) | -                       |
| Spider Profile                       | 1x variable height waves                     | -                       |

**THIELE & SMALL PARAMETERS**

|             |   |
|-------------|---|
| Fs          | 40 Hz   |
| Re [LF]     | 5 Ohm   |
| Re [HF]     | 5.6 Ohm                                       |
| Qes         | 0.29  |
| Qms         | 5.5   |
| Qts         | 0.28  |
| Vas         | 150.1 dm <sup>3</sup> (5.30 ft <sup>3</sup> ) |
| Sd          | 864 cm <sup>2</sup> (133.94 in <sup>2</sup> ) |
| Xmax (6)    | 9.40 mm                                       |
| Xdamage (7) | 18.5 mm                                       |
| Mms         | 110.0 g                                       |
| Bl          | 22.2 N/A                                      |
| Le          | 0.84 mH                                       |
| Mmd         | 81.3 g  |
| Cms         | 0.14 mm/N                                     |
| Rms         | 5.0 kg/s                                      |
| Eta Zero    | 3.32 %  |
| EBP         | 138 Hz  |

