

# 18HW1070



18" - 1600 W - 97 dB - 8 Ohm

### NOMINAL SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| Nominal Diameter                 | 460 mm (18 in)                             |
| Overall Diameter                 | 460 mm (18.11 in)                          |
| Bolt Circle Diameter             | 440 mm (17.32 in)                          |
| Baffle Cutout Diameter           | 422 mm (16.61 in)                          |
| Depth                            | 223 mm (8.78 in)                           |
| Flange and Gasket Thickness      | 14 mm (0.55 in)                            |
| <b>Net Weight</b>                | <b>14.7 kg (32.4 lb)</b>                   |
| Shipping Box (Single Carton Box) | 490 x 485 x 275 mm (19.3 x 19.1 x 10.8 in) |
| Shipping Weight                  | 16.2 kg (35.7 lb)                          |

### PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 04604151 |
|--------------------------------|----------|

### NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) Treated Polycotton
- (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                    | 6.5 Ohm   |
| AES Power Handling (1)               | 1600 W  |
| <b>Maximum Power Handling (2)</b>    | <b>3200 W</b>                                     |
| <b>Sensitivity (1W/1m)</b>           | <b>97 dB</b>                                      |
| Frequency Range                      | 30-1500 Hz  |
| <b>Voice Coil Diameter</b>           | <b>100 mm (4 in)</b>                              |
| Winding Material                     | Cu  |
| Former Material                      | Glass Fiber                                       |
| Winding Depth                        | 31 mm (1.22 in)                                   |
| <b>Magnetic Gap Depth</b>            | <b>15 mm (0.59 in)</b>                            |
| Flux Density                         | 1.1 T   |
| Magnet                               | Ferrite Ring                                      |
| Basket Material                      | Aluminum  |
| Demodulation                         | Triple AI Dem. Ring                               |
| Cone Surround (3)                    | Triple Roll                                       |
| NET Air Volume filled by Loudspeaker | 7.4 dm <sup>3</sup> (0.261 ft <sup>3</sup> )      |
| Spider Profile                       | 2x non-adjacent symmetrical constant height waves |

### THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 32 Hz  |
| Re          | 5.4 Ohm  |
| Qes         | 0.39   |
| Qms         | 10.0   |
| Qts         | 0.38   |
| Vas         | 195.9 dm <sup>3</sup> (6.92 ft <sup>3</sup> )  |
| Sd          | 1212 cm <sup>2</sup> (187.86 in <sup>2</sup> ) |
| Xmax (4)    | 13.00 mm                                       |
| Xdamage (5) | 30 mm  |
| Mms         | 259.0 g  |
| Bl          | 27 N/A   |
| Le          | 1.68 mH  |
| Mmd         | 211.3 g  |
| Cms         | 0.10 mm/N                                      |
| Rms         | 5.2 kg/s                                       |
| Eta Zero    | 1.61 %   |
| EBP         | 82 Hz  |

