

# W8N8-200



8" - 200 W - 92dB - 8 Ohm

## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nominal 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                            | 116.7 mm (4.59 in)                      |
| Flange and Gasket Thickness      | 10.7 mm (0.42 in)                       |
| <b>Net Weight</b>                | <b>1.8 kg (4.0 lb)</b>                  |
| Shipping Box (Single Carton Box) | 235 x 235 x 155 mm (9.3 x 9.3 x 6.1 in) |
| Shipping Weight                  | 2.6 kg (5.7 lb)                         |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 02003896 |
|--------------------------------|----------|

## 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                    | 5.9 Ohm                                    |
| AES Power Handling (1)               | 200 W                                      |
| <b>Maximum Power Handling (2)</b>    | <b>400 W</b>                               |
| <b>Sensitivity (1W/1m)</b>           | <b>92 dB</b>                               |
| Frequency Range                      | 80-5000 Hz                                 |
| <b>Voice Coil Diameter</b>           | <b>52 mm (2 in)</b>                        |
| Winding Material                     | Al   |
| Former Material                      | Glass Fiber                                |
| Winding Depth                        | 19.3 mm (0.76 in)                          |
| <b>Magnetic Gap Depth</b>            | <b>7 mm (0.27 in)</b>                      |
| Flux Density                         | 1.05 T                                     |
| Magnet                               | Neodymium Slug                             |
| Basket Material                      | Aluminum                                   |
| Demodulation                         | No   |
| Cone Surround (3)                    | Triple Roll                                |
| NET Air Volume filled by Loudspeaker | 1 dm <sup>3</sup> (0.035 ft <sup>3</sup> ) |
| Spider Profile                       | 1x variable height waves                   |

## THIELE & SMALL PARAMETERS

|             |  |
|-------------|--|
| Fs          | 74 Hz  |
| Re          | 5.1 Ohm                                      |
| Qes         | 0.69   |
| Qms         | 5.3  |
| Qts         | 0.61   |
| Vas         | 9 dm <sup>3</sup> (0.32 ft <sup>3</sup> )    |
| Sd          | 177 cm <sup>2</sup> (27.44 in <sup>2</sup> ) |
| Xmax (4)    | 8.48 mm                                      |
| Xdamage (5) | 12.9 mm                                      |
| Mms         | 23.0 g                                       |
| Bl          | 8.9 N/A                                      |
| Le          | 0.6 mH                                       |
| Mmd         | 21.6 g                                       |
| Cms         | 0.20 mm/N                                    |
| Rms         | 2 kg/s                                       |
| Eta Zero    | 0.50 %                                       |
| EBP         | 107 Hz                                       |

