

# 8RS250



8" - 200 W - 93 dB - 8 Ohm

## NOMINAL SPECIFICATIONS

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Nominal Diameter                    | 200 mm (8 in)                              |
| Overall Diameter                    | 223.7/207.9 mm (8.81/8.18 in)              |
| Bolt Circle Diameter                | 210 mm (8.27 in)                           |
| Baffle Cutout Diameter              | 183 mm (7.20 in)                           |
| Depth                               | 108 mm (4.25 in)                           |
| Flange and Gasket Thickness         | 15.3 mm (0.60 in)                          |
| <b>Net Weight</b>                   | <b>4.4 Kg (9.7 lb)</b>                     |
| Shipping Box<br>(Single Carton Box) | 235 x 235 x 155 mm<br>(9.3 x 9.3 x 6.1 in) |
| Shipping Weight                     | 4.7 Kg (10.4 lb)                           |

## PART NUMBER

|                                |          |
|--------------------------------|----------|
| Push Terminals - 8 Ohm Version | 02004221 |
|--------------------------------|----------|

## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) NBR (Rubber)
- (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                    | 7 Ohm                                         |
| AES Power Handling (1)               | 200 W                                         |
| <b>Maximum Power Handling (2)</b>    | <b>400 W</b>                                  |
| <b>Sensitivity (1W/1m)</b>           | <b>93 dB</b>                                  |
| Frequency Range                      | 60-6300 Hz                                    |
| <b>Voice Coil Diameter</b>           | <b>52 mm (2 in)</b>                           |
| Winding Material                     | Al                                            |
| Former Material                      | Glass Fiber                                   |
| Winding Depth                        | 16.5 mm (0.65 in)                             |
| <b>Magnetic Gap Depth</b>            | <b>8 mm (0.31 in)</b>                         |
| Flux Density                         | 1.3 T                                         |
| Magnet                               | Ferrite Ring                                  |
| Basket Material                      | Aluminum                                      |
| Demodulation                         | Aluminum Ring                                 |
| Cone Surround (3)                    | Half Roll                                     |
| NET Air Volume filled by Loudspeaker | 1.17 dm <sup>3</sup> (0.041 ft <sup>3</sup> ) |
| Spider Profile                       | 1x variable height waves                      |

## THIELE & SMALL PARAMETERS

|             |                                              |
|-------------|----------------------------------------------|
| Fs          | 56 Hz                                        |
| Re          | 5.7 Ohm                                      |
| Qes         | 0.34                                         |
| Qms         | 5.7                                          |
| Qts         | 0.32                                         |
| Vas         | 16 dm <sup>3</sup> (0.57 ft <sup>3</sup> )   |
| Sd          | 207 cm <sup>2</sup> (32.09 in <sup>2</sup> ) |
| Xmax (4)    | 6.92 mm                                      |
| Xdamage (5) | 15.7 mm                                      |
| Mms         | 30.6 g                                       |
| Bl          | 13.5 N/A                                     |
| Le          | 0.35 mH                                      |
| Mmd         | 28.9 g                                       |
| Cms         | 0.26 mm/N                                    |
| Rms         | 1.89 Kg/s                                    |
| Eta Zero    | 0.81 %                                       |
| EBP         | 165 Hz                                       |

