

# 12RS430

12" - 400 - 94 dB - 8 Ohm



## NOMINAL SPECIFICATIONS

|                                  |   |
|----------------------------------|---|
| Nominal Diameter                 | 300 mm (12 in)                            |
| Overall Diameter                 | 316 mm (12.44 in)                         |
| Bolt Circle Diameter             | 298.5 mm (11.75 in)                       |
| Baffle Cutout Diameter           | 282 mm (11.10 in)                         |
| Depth                            | 157 mm (6.18 in)                          |
| Flange and Gasket Thickness      | 19.5 mm (0.77 in)                         |
| <b>Net Weight</b>                | <b>7.0 kg (15.4 lb)</b>                   |
| Shipping Box (Single Carton Box) | 350 x 346 x 216 mm (13.8 x 13.6 x 8.5 in) |
| Shipping Weight                  | 7.8 kg (17.2 lb)                          |

## PART NUMBER

|                                |     |
|--------------------------------|-----|
| Push Terminals - 8 Ohm Version | TBD |
|--------------------------------|-----|

## NOTES:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3) EPDM (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                    | 8 Ohm   |
| AES Power Handling (1)               | 400 W   |
| <b>Maximum Power Handling (2)</b>    | <b>800 W</b>                                  |
| <b>Sensitivity (1W/1m)</b>           | <b>93 dB</b>                                  |
| Frequency Range                      | 30-2500 Hz                                    |
| <b>Voice Coil Diameter</b>           | <b>65 mm (2.56 in)</b>                        |
| Winding Material                     | Al  |
| Former Material                      | Glass Fiber                                   |
| Winding Depth                        | 29.8 mm (1.17 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 | 2.85 dm <sup>3</sup> (0.101 ft <sup>3</sup> ) |
| Spider Profile                       | 1x constant height waves                      |

## THIELE & SMALL PARAMETERS

|             |   |
|-------------|---|
| Fs          | 30 Hz   |
| Re          | 6.8 Ohm                                       |
| Qes         | 0.39  |
| Qms         | 10.0  |
| Qts         | 0.38  |
| Vas         | 135.2 dm <sup>3</sup> (4.77 ft <sup>3</sup> ) |
| Sd          | 552 cm <sup>2</sup> (85.56 in <sup>2</sup> )  |
| Xmax (4)    | 13.57 mm                                      |
| Xdamage (5) | 21.5 mm                                       |
| Mms         | 88.6 g  |
| Bl          | 17 N/A  |
| Le          | 0.78 mH                                       |
| Mmd         | 73.9 g  |
| Cms         | 0.32 mm/N                                     |
| Rms         | 1.7 kg/s                                      |
| Eta Zero    | 0.90 %  |
| EBP         | 76 Hz   |

