

# ROSSO-18SW1000D

AUDIENCE

18" - Subwoofer - 1000W - 99dB



- Proprietary cone paper material with silk cotton tree
- Double spider for high stability suspension
- Shorting ring in motor system for reduced distortion
- Cooling device on yoke for improved heat transfer
- 4.5" voice coil with APC (Advanced Polymer Coating)
- AISVW voice coil wire for high power handling
- Cast aluminium chassis

## Dimensions & Weight

|                             |   |
|-----------------------------|---|
| Overall Diameter            | 483 mm (19.0 in)                        |
| Bolt Circle Diameter        | 456 mm (18.0 in)                        |
| Baffle Cutout Diameter      | 428 mm (16.85 in)                       |
| Mounting Depth              | 218.7 mm (8.61 in)                      |
| Flange and Gasket Thickness | 16.5 mm (0.64 in)                       |
| Net Weight                  | 17 Kg (37.4 lb)                         |
| Shipping Box                | 498 x 498 x 270<br>(14.6 x 14.6 x 7 in) |
| Gross Weight                | 19.7 Kg (43.43 lb)                      |

## Replacement Diaphragm

|     |
|-----|
| N/A |
|-----|

## NOTES :

- (1) AES standard, test mode with continuous pink noise signal (6 dB crest factor; 2 hours) within the  $F_0$  to  $10F_0$  power calculated on rated nominal impedance. Loudspeaker in free air
- (2) Maximum power is defined as 3dB greater than nominal power.
- (3)  $X_{max} = ((\text{Winding depth} - \text{magnetic gap depth})/2) + (\text{magnetic gap depth}/3)$
- (4) Maximum excursion (p-p) before permanent damage
- (5) T/S parameters measured on drive units that are broken in using Klippel LPM Measurement System.

## Specs :

|                                 |   |
|---------------------------------|---|
| Nominal Impedance               | 8 Ohm   |
| Minimum Impedance               | 5.2 Ohm   |
| AES Power Handling (1)          | 1000 W  |
| Maximum Power Handling (2)      | 2000 W  |
| Sensitivity (1W/1m)             | 99 dB   |
| Frequency Range                 | 35 - 2900 Hz  |
| Voice Coil Diameter             | 113 mm (4.5 in)   |
| Winding Material                | AISV copper wire  |
| Former Material                 | FIBSV   |
| Winding Depth                   | 32.05 mm  |
| Magnetic Gap Depth              | 14 mm (0.55 in)   |
| Flux Density                    | 0.93 T  |
| Magnet                          | Ferrite   |
| Basket Material                 | Aluminium die cast                                      |
| Demodulation                    | Aluminium shorting ring and<br>Aluminium cooling device |
| Cone Surround                   | Triple roll   |
| NET Air Volume filled by driver | 9.46 liters   |
| Spider Profile                  | Double constant height waves                            |
| Weather Resistant               | Yes   |

## Thiele Small Parameters

|             |                        |
|-------------|------------------------|
| Fs          | 35 Hz                  |
| Re          | 5.3 Ohm                |
| Qes         | 0.49                   |
| Qms         | 10.13                  |
| Qts         | 0.46                   |
| Vas         | 164.3 liters           |
| Sd          | 1256.6 cm <sup>2</sup> |
| Xmax (3)    | 13.67 mm               |
| Xdamage (4) | 25 mm                  |
| Mms         | 276 g                  |
| Bl          | 25.8 Tm                |
| Le          | 1.64 mH                |
| Cms         | 0.07 mm/N              |
| Rms         | 6.05 Kg/s              |
| Eta Zero    | 1.44 %                 |
| EBP         | 71                     |

