

# ROSSO-18SW800

AUDIENCE

18" - Subwoofer - 800W - 100dB

- Proprietary cone paper material with silk cotton tree
- Minimum damping fiber glass voice coil former
- 4" voice coil with APC (Advanced Polymer Coating)
- Ribbon voice coil wire for high efficiency
- Cast aluminium chassis
- Vented back plate for reduced compression
- Cooling device on yoke for increased heat transfer



## Dimensions & Weight

Overall Diameter	470 mm (18.5 in)
Bolt Circle Diameter	454 mm (17.9 in)
Baffle Cutout Diameter	425 mm (16.73 in)
Mounting Depth	205.5 mm (8.09 in)
Flange and Gasket Thickness	14.5 mm (0.6 in)
Net Weight	12.7 Kg (27.94 lb)
Shipping Box	498 x 498 x 270 mm (19.60 x 19.60 x 10.66 in)
Gross Weight	15.4 Kg (33.95 lb)

## Replacement Diaphragm

N/A

## NOTES :

- (1) AES standard, test mode with continuous pink noise signal (6 dB crest factor; 2 hours) within the  $F_o$  to  $10F_o$  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)	800 W
Maximum Power Handling (2)	1600 W
Sensitivity (1W/1m)	100 dB
Frequency Range	33 - 3200 Hz
Voice Coil Diameter	99.2 mm (4 in)
Winding Material	Copper clad Aluminium
Former Material	FIBSV
Winding Depth	26 mm
Magnetic Gap Depth	10 mm (0.39 in)
Flux Density	1.03 T
Magnet	Ferrite
Basket Material	Aluminium die cast
Demodulation	Aluminium cooling device
Cone Surround	Double half roll
NET Air Volume filled by driver	7.80 liters
Spider Profile	Single constant height waves
Weather Resistant	Yes

## Thiele Small Parameters

Fs	33 Hz
Re	5.1 Ohm
Qes	0.48
Qms	9.09
Qts	0.46
Vas	258.1 liters
Sd	1256.6 cm <sup>2</sup>
Xmax (3)	11.33 mm
Xdamage (4)	23 mm
Mms	200.6 g
Bl	21 Tm
Le	1.25 mH
Cms	0.12 mm/N
Rms	4.59 Kg/s
Eta Zero	1.86 %
EBP	69

