

18DS100 8 Ω

Subwoofer

- 3000 W continuous program power capacity
- 100 mm (4 in) copper voice coil
- 34 - 1000 Hz response
- 97.5 dB sensitivity
- Excursion optimized lead wires (woven through spider)
- Double silicone spider with optimized compliance
- Ventilated voice coil gap for reduced power compression
- Aluminium demodulating ring for very low distortion

This next evolution subwoofer uses a new, longer, four layer aluminum voice coil. The result is less heat, more energy in the gap, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS100 features a 36.5 mm long, 4 inch diameter (100mm) Copper Clad Aluminum Wire voice coil. With a 1500watt AES power rating, 97.5 dB sensitivity, and over 14.0mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.



SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Nominal Power Handling	1500 W
2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.	
Continuous Power Handling	3000 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	97.5 dB
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	34 Hz - 1000 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	36.5 mm (1.44 in)
Magnetic Gap Depth	16 mm (0.63 in)
Flux Density	0.7 T
Woofer Cone Treatment	TWP Waterproof Both Sides

PARAMETERS

Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

Fs	34 Hz
Re	4.5 Ω
Qes	0.3
Qms	9.5
Qts	0.29
Vas	155 dm³ (5.47 ft³)
Sd	1210 cm² (187.55 in²)
η0	2.1 %
Xmax	14.5 mm
Xvar	14 mm
Mms	278 g
Bl	30 Tm
Le	4.4 mH
EBP	113 Hz

DESIGN

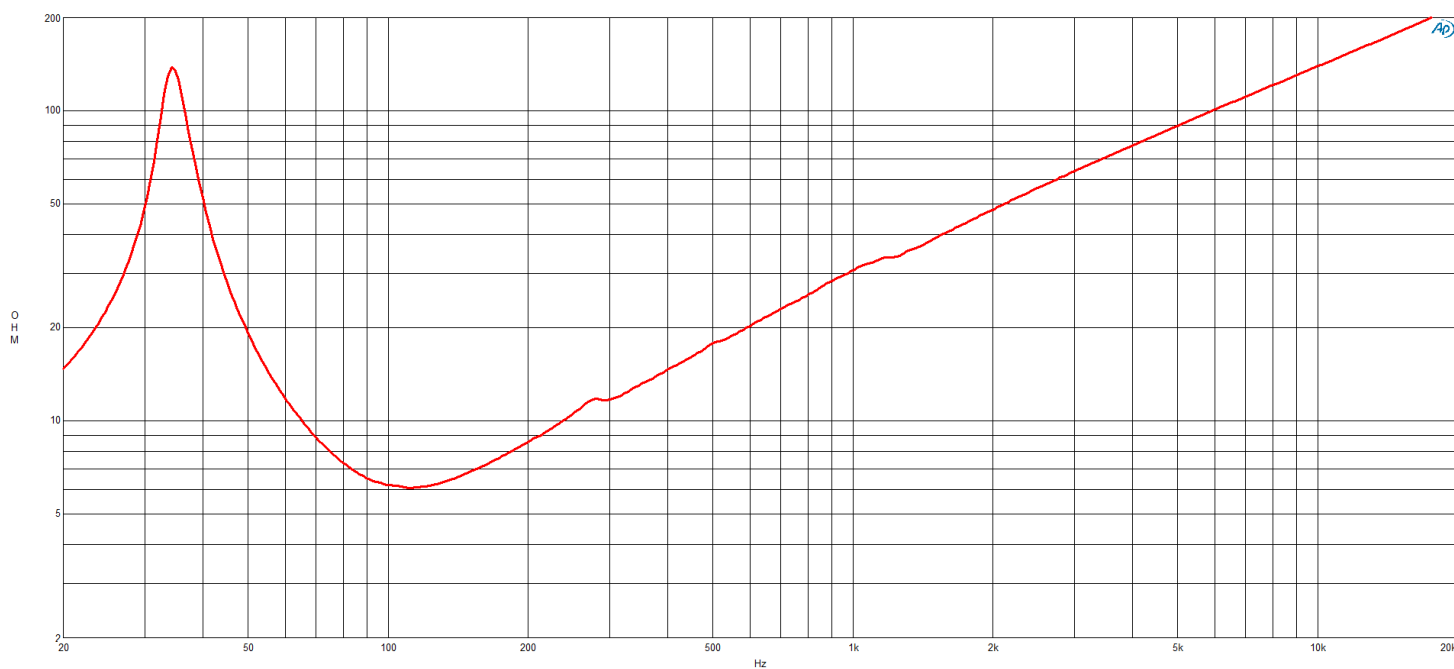
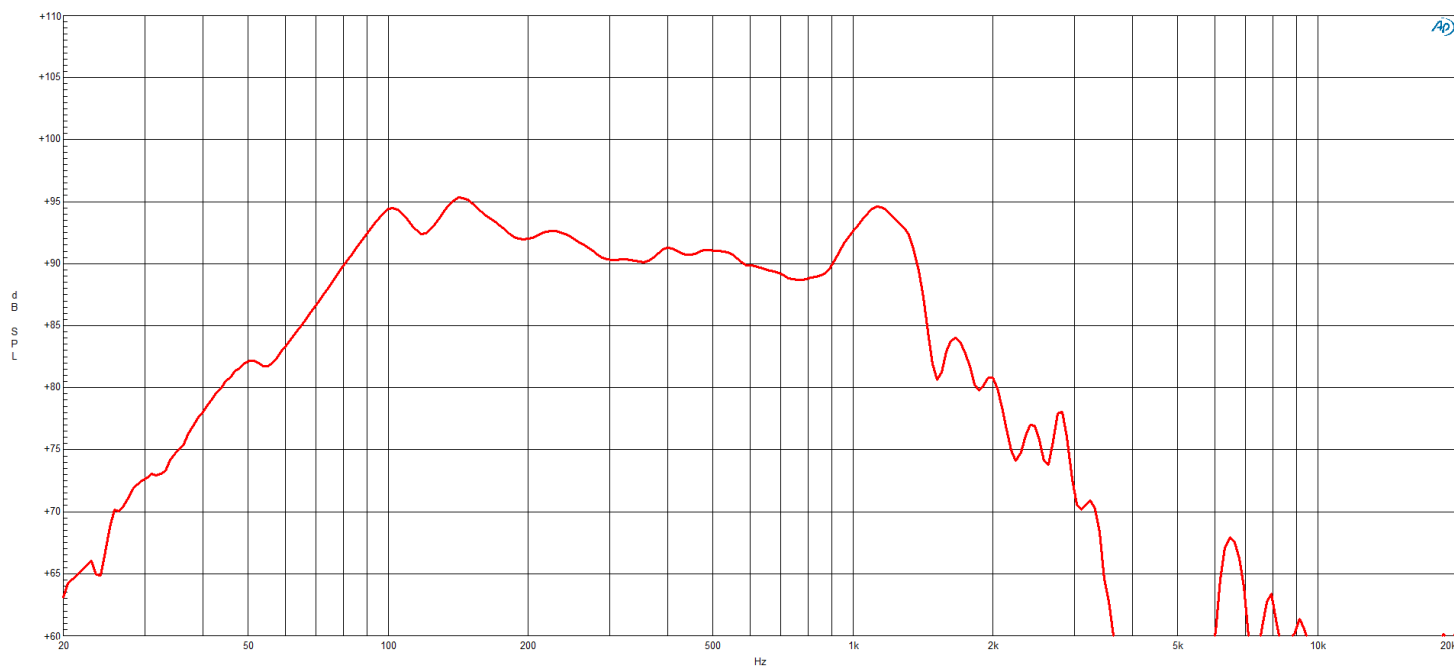
Surround Shape	Triple Roll
Cone Shape	Radial
Magnet Material	Neodymium Inside Slug
Spider	Double Silicone
Pole Design	T-Pole
Woofer Cone Treatment	TWP Waterproof Both Sides
Recommended Enclosure	200 dm³ (7.06 ft³)
Recommended Tuning	35 Hz

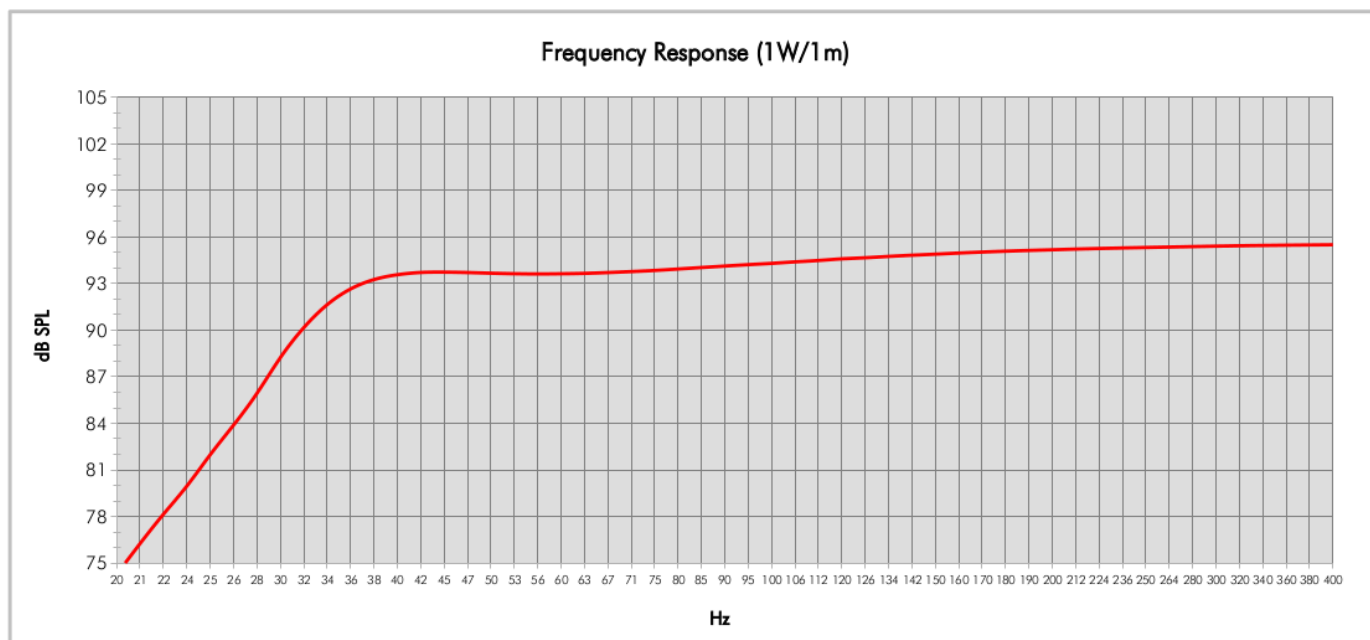
MOUNTING AND SHIPPING INFO

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	442 mm (17.4 in)
Baffle Cutout Diameter	425 mm (16.73 in)
Depth	239 mm (9.41 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air Volume Occupied by Driver	10 dm³ (0.35 ft³)
Net Weight	10.5 kg (23.15 lb)
Shipping Units	1 pcs
Shipping Weight	12.3 kg (27.12 lb)
Shipping Box	500x500x300 mm (19.69x19.69x11.81 in)

SERVICE KITS

LF recone-kits	RCK18DS1008
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Model:	18DS100	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	200	QB:	4
Tuning Frequency (Hz):	35	Port Area (cm ²):	400,0
Frequency (-3 dB) (Hz):	35,9	Port Length (cm):	29,4
Frequency (-10 dB) (Hz):	27,8		

LF Drivers

Ø 18 inches

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Subwoofer

