

18RS115 8 Ω**Subwoofer**

- 4000 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 35 - 1000 Hz response
- 97.4 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

PRELIMINARY DATA

The new 18RS115subwoofer uses a four layer aluminum voice coil, as used in our popular DS Series. The result is more energy in the gap, less heat, higher sensitivity, higher power handling, lower distortion and better overall performance. The new RS Series takes this to the next level, incorporating a far **higher flux motor, combined with an extra long 54mm x 4.5 inch diameter (116mm) Copper Clad Aluminum Wire** voice coil. The 18RS115 strikes an excellent balance between power handling and sensitivity, ultimately outperforming many power hungry alternatives with significantly larger diameter voice coils. With a 2000watt AES power rating, 97.4 dB sensitivity, and over 23.5mm of Xmax, these high-excursion transducers represent an incremental advancement over comparable B&C woofers in power density, efficiency, and displacement capability.



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SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.6 Ω
Nominal Power Handling	2000 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	4000 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	97.4 dB
Sensitivity at 2.83V/1m is calculated based on declared -0and Re values.	
Frequency Range	35 Hz - 1000 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	54 mm (2.13 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.9 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	33 Hz
Re	4.5 Ω
Qes	0.23
Qms	9
Qts	0.22
Vas	125 dm³ (4.41 ft³)
Sd	1210 cm² (187.55 in²)
η ₀	1.95 %
X _{max}	23.5 mm
X _{var}	19 mm
M _{ms}	391 g
Bl	40 Tm
Le	5.1 mH
EBP	143 Hz

DESIGN

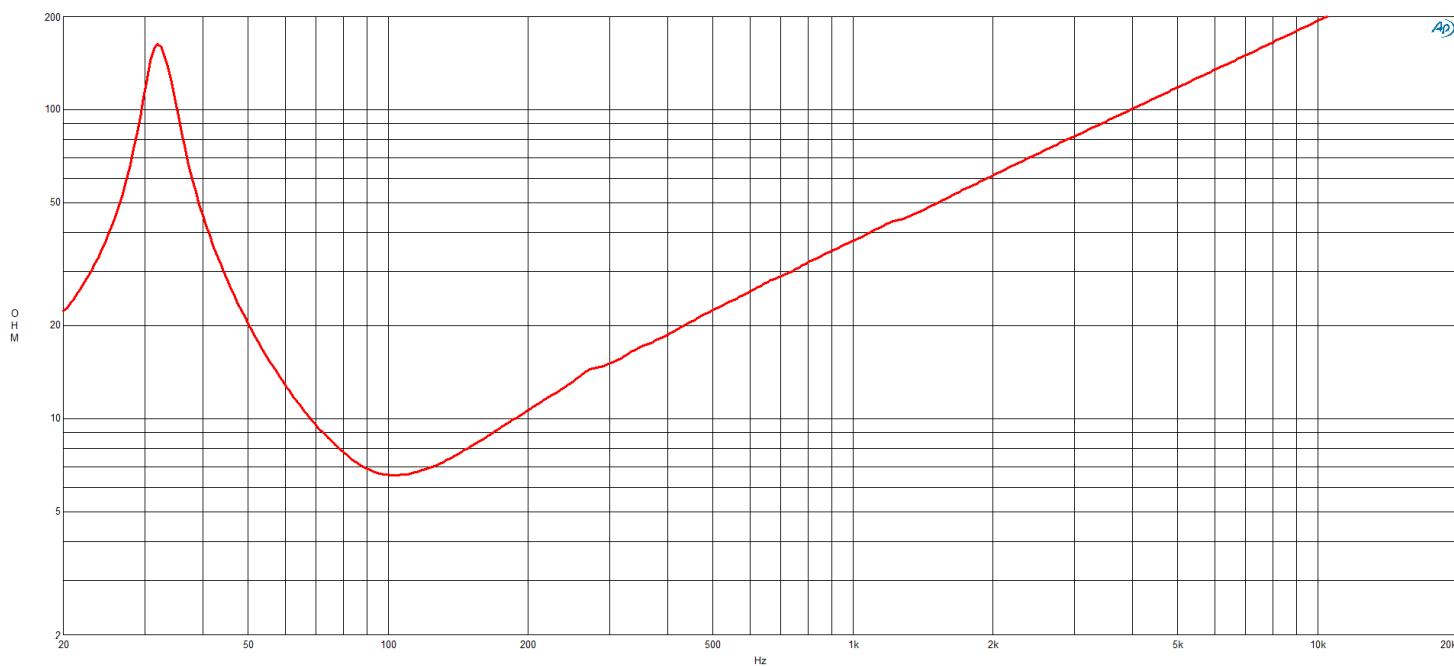
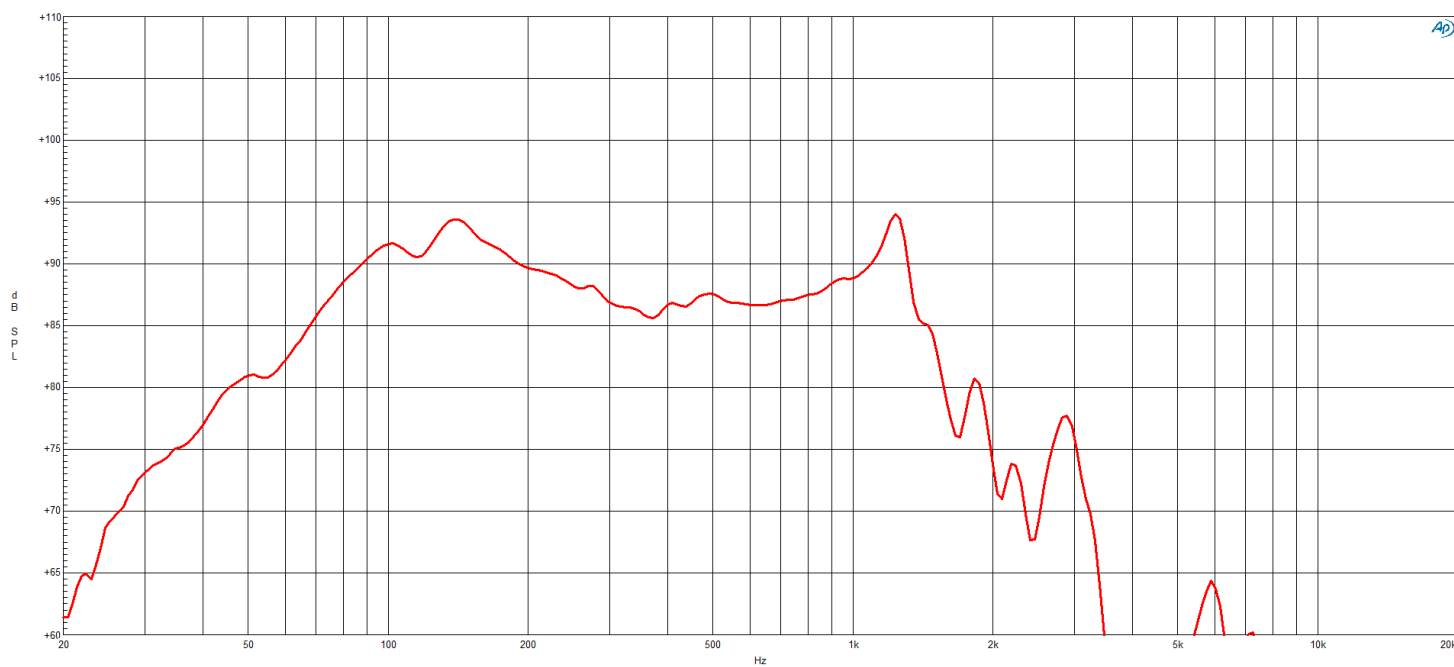
Surround Shape	Triple Roll
Cone Shape	Straight
Magnet Material	Neodymium Inside Slug
Spider	Double Silicone
Pole Design	T-Pole
Woofer Cone Treatment	TWP Waterproof Both Sides

MOUNTING AND SHIPPING INFO

Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	443 mm (17.44 in)
Baffle Cutout Diameter	425 mm (16.73 in)
Depth	261 mm (10.28 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air Volume Occupied by Driver	10 dm³ (0.35 ft³)
Net Weight	15.4 kg (33.95 lb)

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