

18DS115 4 Ω**Subwoofer**

- 3400 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 30 - 500 Hz response
- 97 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 more energy in the gap, less heat, higher sensitivity, higher power handling, lower distortion and better overall performance. The 18DS115 features a 40mm long, 4.5 inch diameter (116mm) Copper Clad Aluminum Wire voice coil. With a 1700watt AES power rating, 97 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.



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SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Nominal Impedance	4 Ω
Minimum Impedance	4.5 Ω
Nominal Power Handling	1700 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	3400 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	97 dB
Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.	
Frequency Range	30 Hz - 500 Hz
Voice Coil Diameter	116 mm (4.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	40 mm (1.57 in)
Magnetic Gap Depth	14 mm (0.55 in)
Flux Density	0.8 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	30 Hz
Re	3.3 Ω
Qes	0.18
Qms	4.75
Qts	0.17
Vas	177 dm³ (6.25 ft³)
Sd	1210 cm² (187.55 in²)
η ₀	2.3 %
X _{max}	16.5 mm
X _{var}	14 mm
M _{ms}	348 g
Bl	34 Tm
Le	2.8 mH
EBP	167 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	100 dm³ (3.53 ft³)
Recommended Tuning	40 Hz

MOUNTING AND SHIPPING INFO

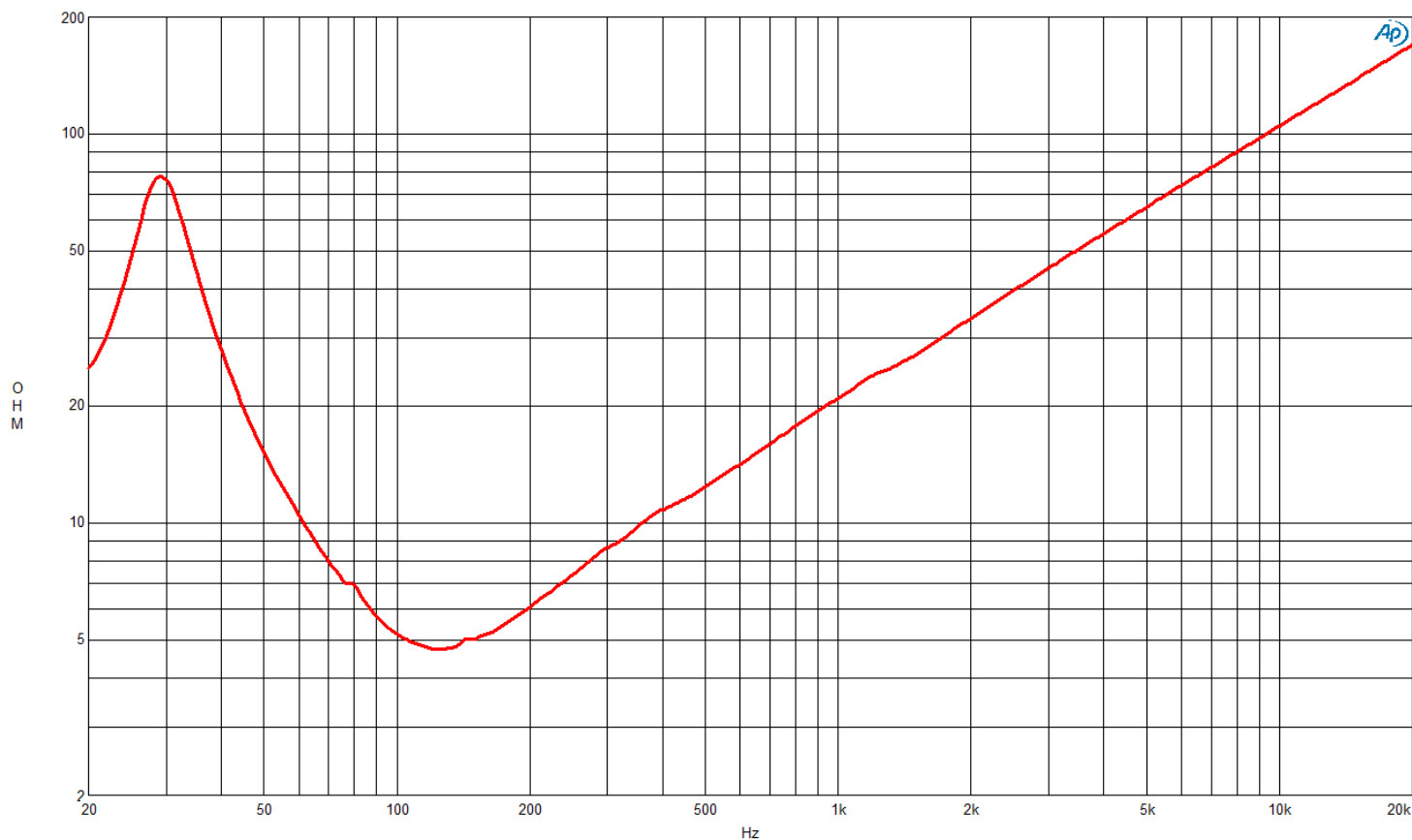
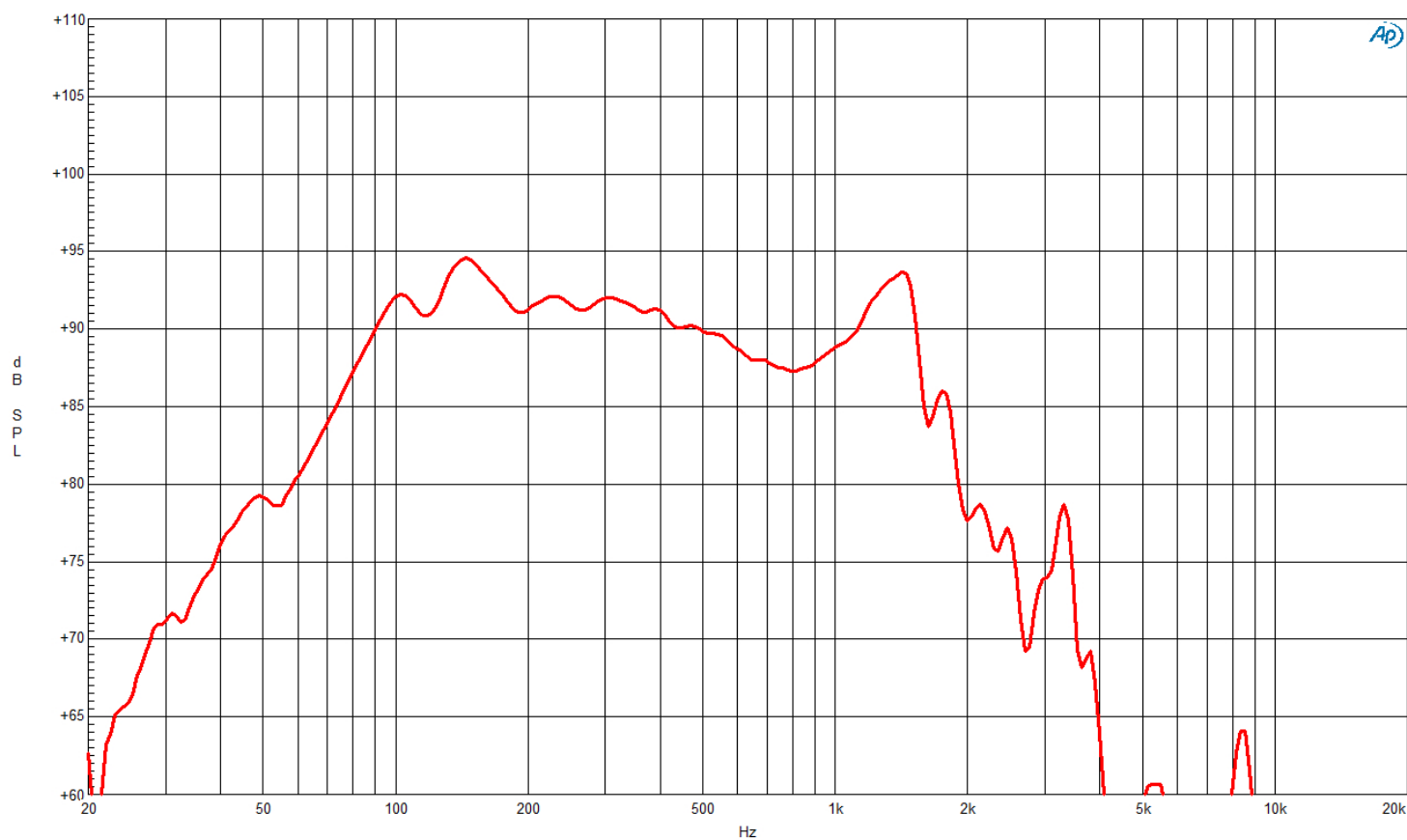
Overall Diameter	460 mm (18 in)
Bolt Circle Diameter	442 mm (17.4 in)
Baffle Cutout Diameter	425 mm (16.73 in)
Depth	248 mm (9.76 in)
Flange and Gasket Thickness	16 mm (0.63 in)
Air Volume Occupied by Driver	10 dm³ (0.35 ft³)
Net Weight	12.55 kg (27.67 lb)
Shipping Units	1 pcs
Shipping Weight	14.15 kg (31.2 lb)
Shipping Box	500x495x275 mm (19.69x19.49x10.83 in)

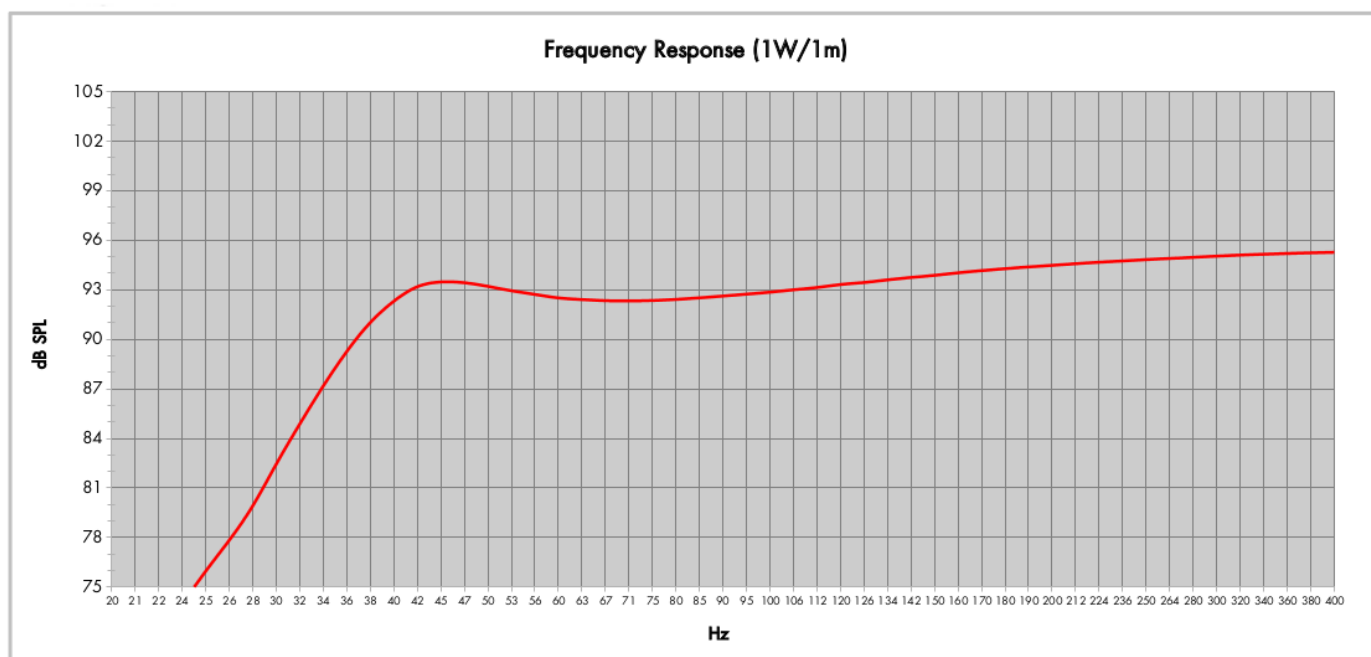
SERVICE KITS

LF recone-kits	RCK18DS1154
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Model:	18DS115		
Enclosure Type:	Bass Reflex	Configuration:	One Driver
Internal Net Volume (Litres):	100	QB:	7
Tuning Frequency (Hz):	40	Port Area (cm ²):	200,0
Frequency (-3 dB) (Hz):	40,8	Port Length (cm):	23,7
Frequency (-10 dB) (Hz):	32,6		

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