

## 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.



## 18DS115 4 Ω

Subwoofer

### SPECIFICATIONS

Nominal Diameter	<b>460 mm (18 in)</b>
Nominal Impedance	<b>4 Ω</b>
Minimum Impedance	<b>4.5 Ω</b>
Nominal Power Handling	<b>1700 W</b>
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	<b>3400 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>97 dB</b>
Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.	
Frequency Range	<b>30 Hz - 500 Hz</b>
Voice Coil Diameter	<b>116 mm (4.5 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>40 mm (1.57 in)</b>
Magnetic Gap Depth	<b>14 mm (0.55 in)</b>
Flux Density	<b>0.8 T</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>

### PARAMETERS

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

Fs	<b>30 Hz</b>
Re	<b>3.3 Ω</b>
Qes	<b>0.18</b>
Qms	<b>4.75</b>
Qts	<b>0.17</b>
Vas	<b>177 dm<sup>3</sup> (6.25 ft<sup>3</sup>)</b>
Sd	<b>1210 cm<sup>2</sup> (187.55 in<sup>2</sup>)</b>
η0	<b>2.3 %</b>
Xmax	<b>16.5 mm</b>
Xvar	<b>14 mm</b>
Mms	<b>348 g</b>
Bl	<b>34 Tm</b>
Le	<b>2.8 mH</b>
EBP	<b>167 Hz</b>

### DESIGN

Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Radial</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Double Silicone</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>100 dm<sup>3</sup> (3.53 ft<sup>3</sup>)</b>
Recommended Tuning	<b>40 Hz</b>

### MOUNTING AND SHIPPING INFO

Overall Diameter	<b>460 mm (18 in)</b>
Bolt Circle Diameter	<b>442 mm (17.4 in)</b>
Baffle Cutout Diameter	<b>425 mm (16.73 in)</b>
Depth	<b>248 mm (9.76 in)</b>
Flange and Gasket Thickness	<b>16 mm (0.63 in)</b>
Air Volume Occupied by Driver	<b>10 dm<sup>3</sup> (0.35 ft<sup>3</sup>)</b>
Net Weight	<b>12.55 kg (27.67 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>14.15 kg (31.2 lb)</b>
Shipping Box	<b>500x495x275 mm (19.69x19.49x10.83 in)</b>

### SERVICE KITS

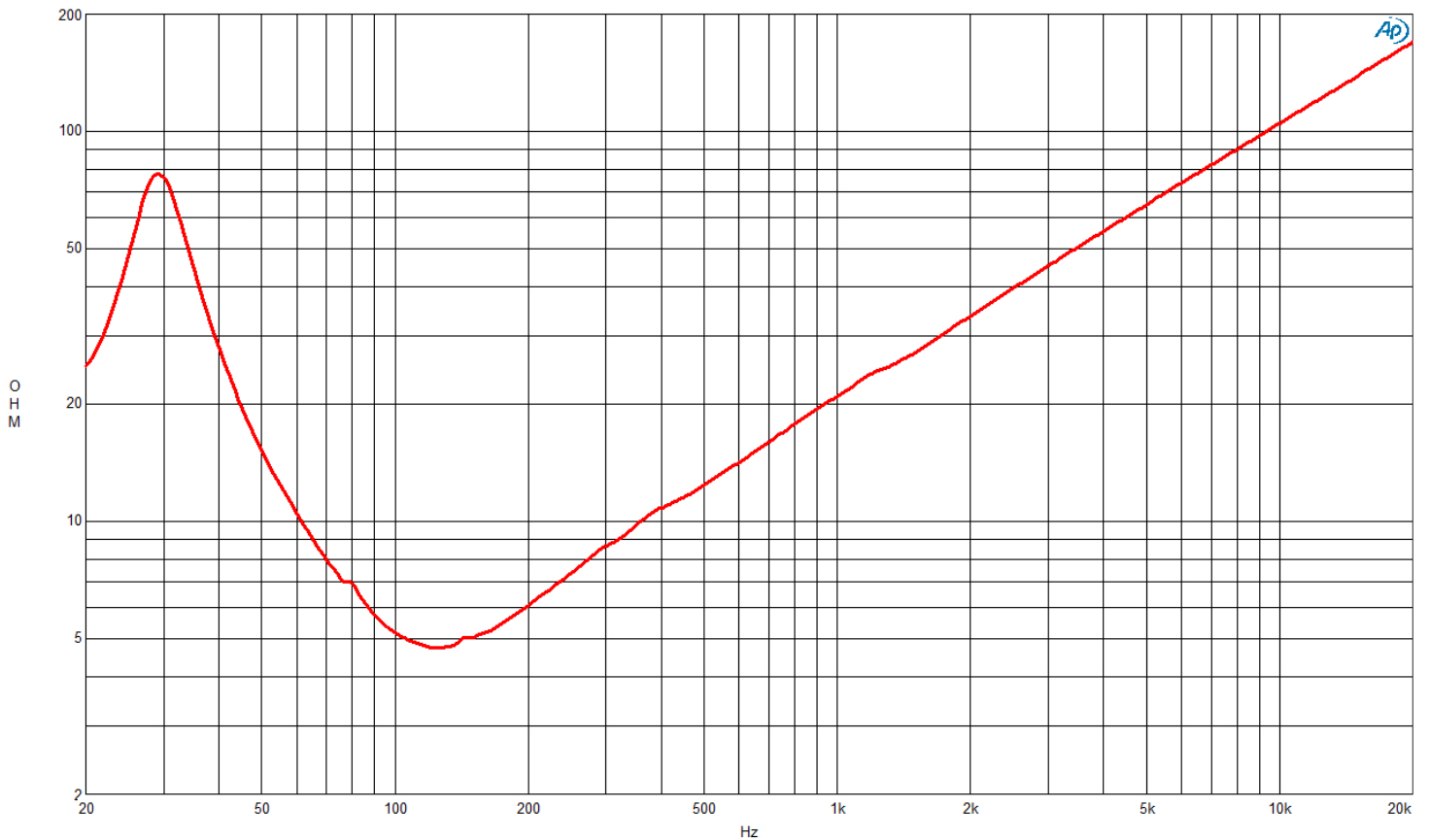
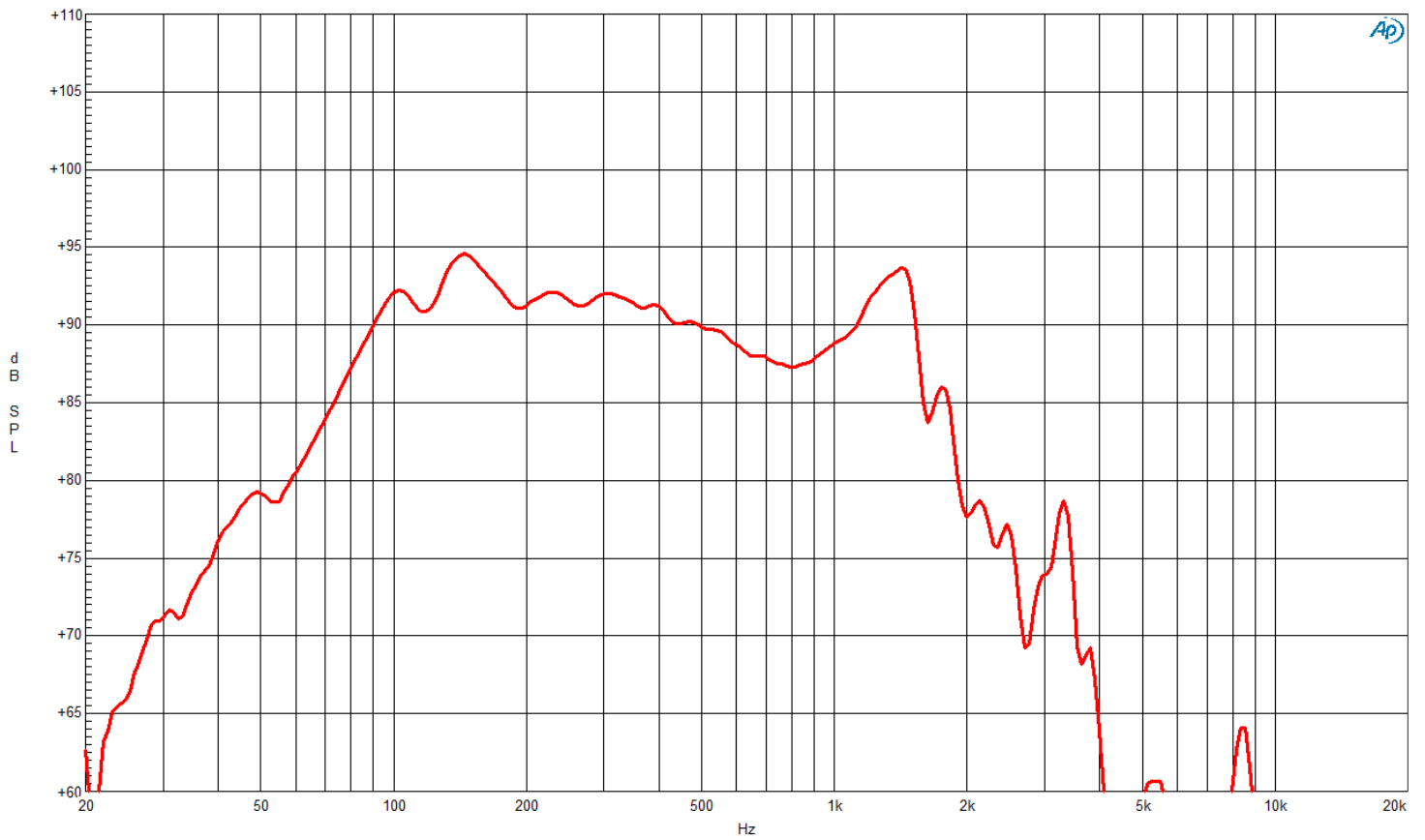
LF recone-kits	<b>RCK18DS1154</b>
----------------	--------------------

# LF Drivers

Ø 18 inches

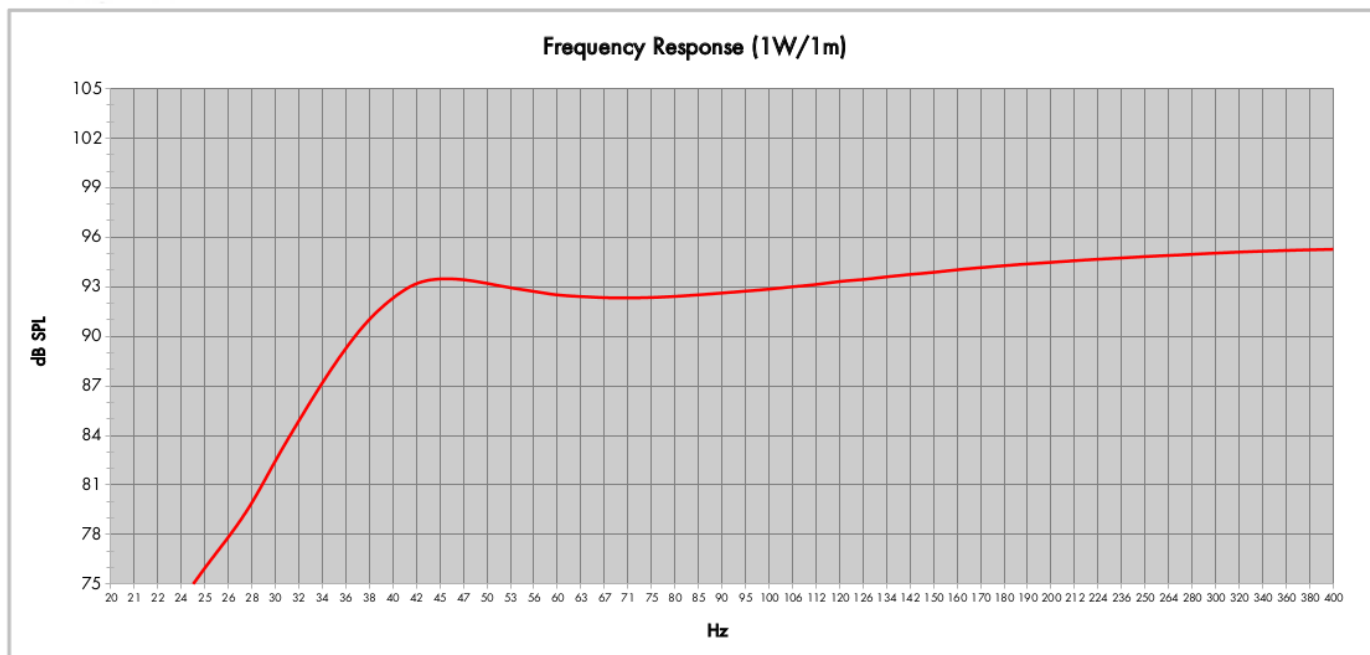
**18DS115** 4 Ω

Subwoofer



Professional loudspeaker transducers since 1946

**B&C Speakers S.p.A.** Via Poggiomoro, 1 - Loc. Vallina, 50012 Bagno a Ripoli (FI) | ITALY  
Tel. +39 055 65721 | Fax +39 055 6572312 | [mail@bcspeakers.com](mailto:mail@bcspeakers.com)



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

# LF Drivers

Ø 18 inches

**18DS115** 4 Ω

Subwoofer

