

## 15DS115 8 Ω

## Subwoofer

- 3200 W continuous program power capacity
- 116 mm (4.5 in) four layer aluminum voice coil
- 35 - 1000 Hz response
- 97 dB sensitivity
- Excursion optimized lead wires (woven through spider)
- Neodymium magnet allows a very high force factor and linear excursion
- 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 15DS115 features a 40mm long, 4.5 inch diameter (116mm) Copper Clad Aluminum Wire voice coil. With a 1600watt AES power rating, 97 dB sensitivity, and over 14 mm of Xvar, this high energy subwoofer is a significant step forward from similar models in the B&C range.



### SPECIFICATIONS

Nominal Diameter	<b>380 mm (15 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>7.2 Ω</b>
Nominal Power Handling	<b>1600 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>3200 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 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>35 Hz - 1000 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>33 Hz</b>
Re	<b>4.9 Ω</b>
Qes	<b>0.18</b>
Qms	<b>5.2</b>
Qts	<b>0.17</b>
Vas	<b>94 dm<sup>3</sup> (3.32 ft<sup>3</sup>)</b>
Sd	<b>855 cm<sup>2</sup> (132.53 in<sup>2</sup>)</b>
η0	<b>1.9 %</b>
Xmax	<b>16.5 mm</b>
Xvar	<b>14 mm</b>
Mms	<b>254 g</b>
Bl	<b>38.7 Tm</b>
Le	<b>4.5 mH</b>
EBP	<b>183 Hz</b>

### DESIGN

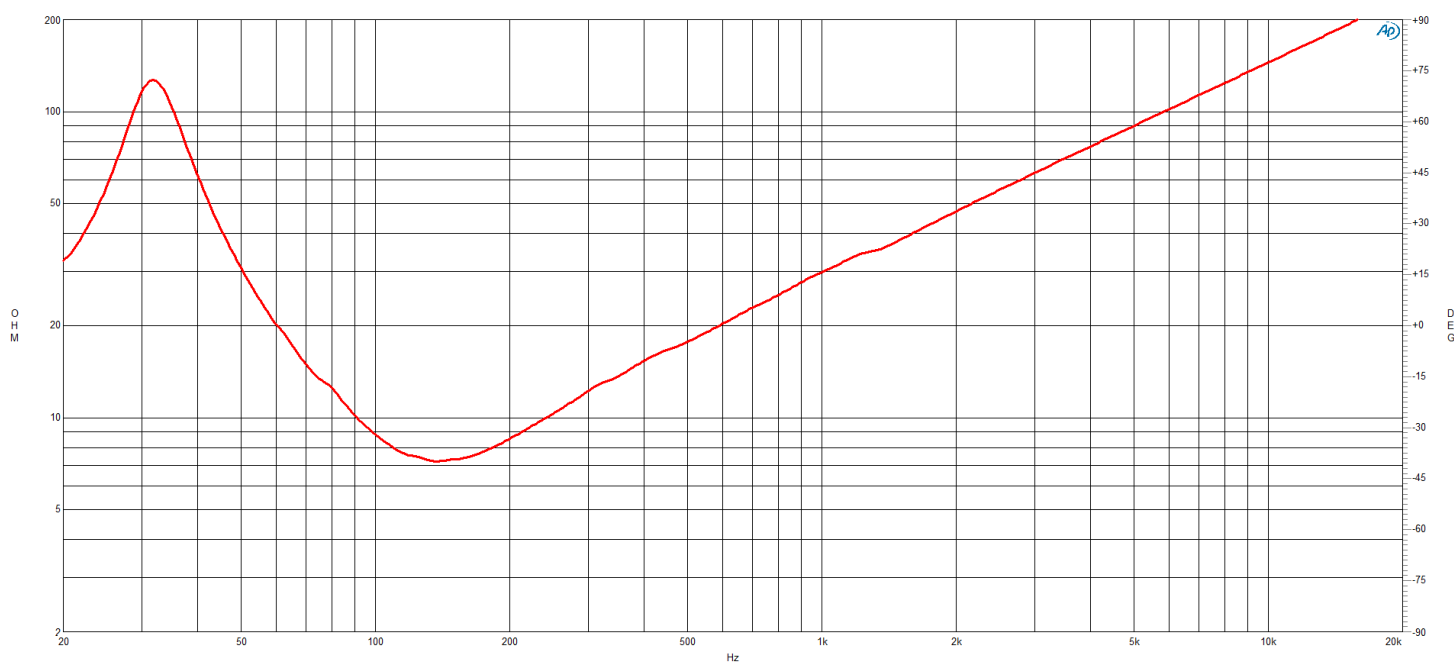
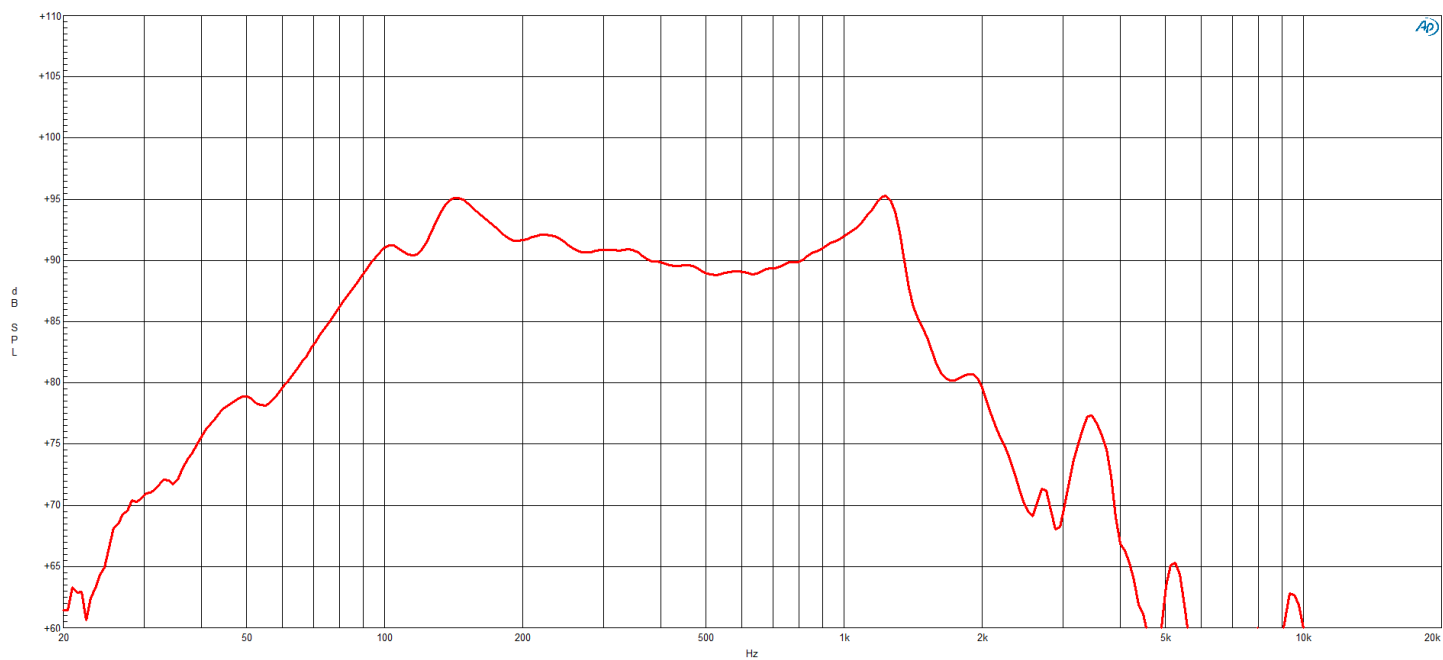
Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Radial</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Double Silicone</b>
Pole Design	<b>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>80 dm<sup>3</sup> (2.83 ft<sup>3</sup>)</b>
Recommended Tuning	<b>40 Hz</b>

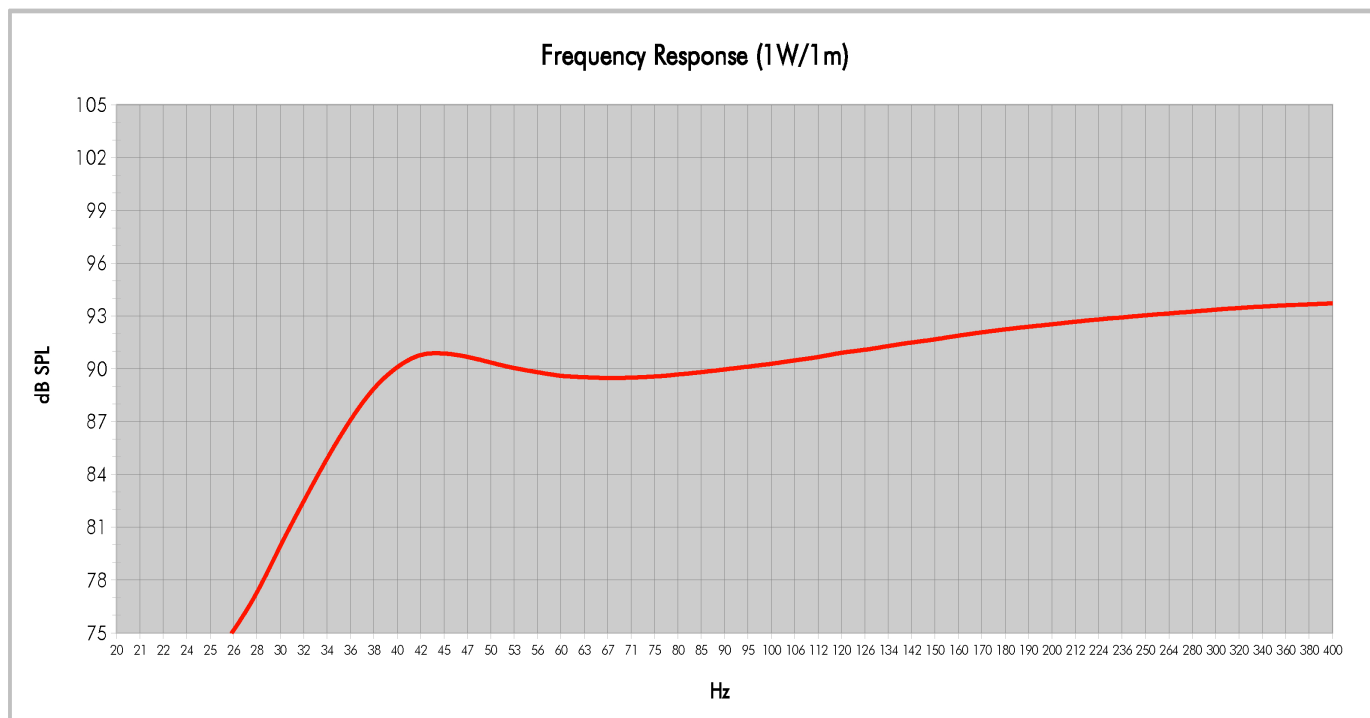
### MOUNTING AND SHIPPING INFO

Overall Diameter	<b>393 mm (15.47 in)</b>
Bolt Circle Diameter	<b>375 mm (14.76 in)</b>
Baffle Cutout Diameter	<b>354 mm (13.94 in)</b>
Depth	<b>199 mm (7.83 in)</b>
Flange and Gasket Thickness	<b>15 mm (0.59 in)</b>
Air Volume Occupied by Driver	<b>7 dm<sup>3</sup> (0.25 ft<sup>3</sup>)</b>
Net Weight	<b>11.7 kg (25.79 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>13 kg (28.66 lb)</b>
Shipping Box	<b>425x425x224 mm (16.73x16.73x8.82 in)</b>

### SERVICE KITS

LF recone-kits	<b>RCK15DS1158</b>
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Model:	<b>15DS115</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Litres):	<b>80</b>	QB:	<b>5</b>
Tuning Frequency (Hz):	<b>40</b>	Port Area (cm <sup>2</sup> ):	<b>200,0</b>
Frequency (-3 dB) (Hz):	--	Port Length (cm):	<b>33,1</b>
Frequency (-10 dB) (Hz):	<b>33,5</b>		

# LF Drivers

Ø 15 inches

**15DS115** 8 Ω

Subwoofer

