

**15DS100** 4 Ω**Subwoofer**

- 3000 W continuous program power capacity
- 100 mm (4 in) four layer aluminium voice coil
- 39 - 1000 Hz response
- 96.8 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 15DS100 features a 37mm long, 4 inch diameter (100mm) Copper Clad Aluminum Wire voice coil. With a 1500watt AES power rating, 96.8 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.



# 15DS100 4 Ω

## Subwoofer

### SPECIFICATIONS

|                                                                                                                                                     |                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Nominal Diameter                                                                                                                                    | <b>380 mm (15 in)</b>            |
| Nominal Impedance                                                                                                                                   | <b>4 Ω</b>                       |
| Minimum Impedance                                                                                                                                   | <b>3.4 Ω</b>                     |
| Nominal Power Handling                                                                                                                              | <b>1500 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>3000 W</b>                    |
| Power on Continuous Program is defined as 3 dB greater than the Nominal rating.                                                                     |                                  |
| Sensitivity                                                                                                                                         | <b>96.8 dB</b>                   |
| Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.                                                                                     |                                  |
| Frequency Range                                                                                                                                     | <b>39 Hz - 1000 Hz</b>           |
| Voice Coil Diameter                                                                                                                                 | <b>100 mm (4 in)</b>             |
| Winding Material                                                                                                                                    | <b>Aluminium</b>                 |
| Former Material                                                                                                                                     | <b>Glass Fibre</b>               |
| Winding Depth                                                                                                                                       | <b>34 mm (1.34 in)</b>           |
| Magnetic Gap Depth                                                                                                                                  | <b>16 mm (0.63 in)</b>           |
| Flux Density                                                                                                                                        | <b>0.7 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>39 Hz</b>                                      |
| Re               | <b>2.4 Ω</b>                                      |
| Qes              | <b>0.23</b>                                       |
| Qms              | <b>8.16</b>                                       |
| Qts              | <b>0.23</b>                                       |
| Vas              | <b>73 dm<sup>3</sup> (2.58 ft<sup>3</sup>)</b>    |
| Sd               | <b>855 cm<sup>2</sup> (132.53 in<sup>2</sup>)</b> |
| η <sub>0</sub>   | <b>1.8 %</b>                                      |
| X <sub>max</sub> | <b>13 mm</b>                                      |
| X <sub>var</sub> | <b>14 mm</b>                                      |
| M <sub>ms</sub>  | <b>233 g</b>                                      |
| Bl               | <b>24.3 Tm</b>                                    |
| Le               | <b>2.8 mH</b>                                     |
| EBP              | <b>170 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>120 dm<sup>3</sup> (4.24 ft<sup>3</sup>)</b> |
| Recommended Tuning    | <b>40 Hz</b>                                    |

### MOUNTING AND SHIPPING INFO

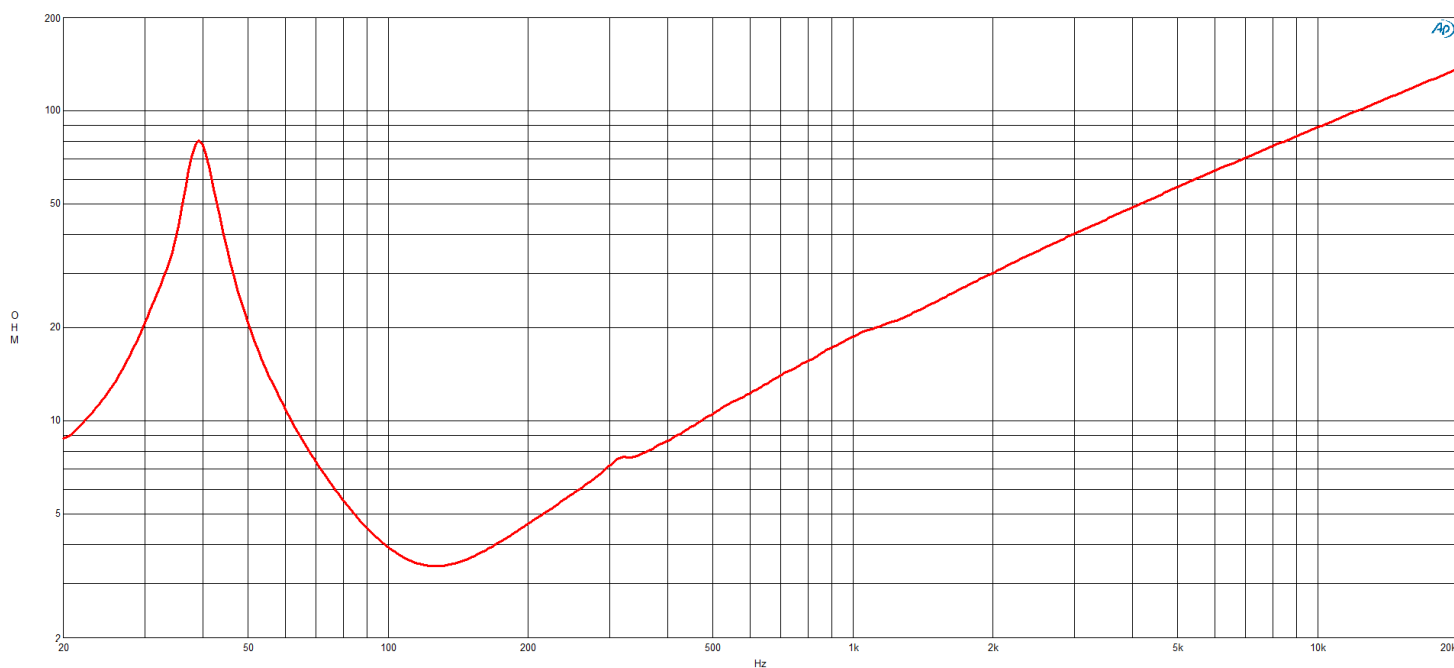
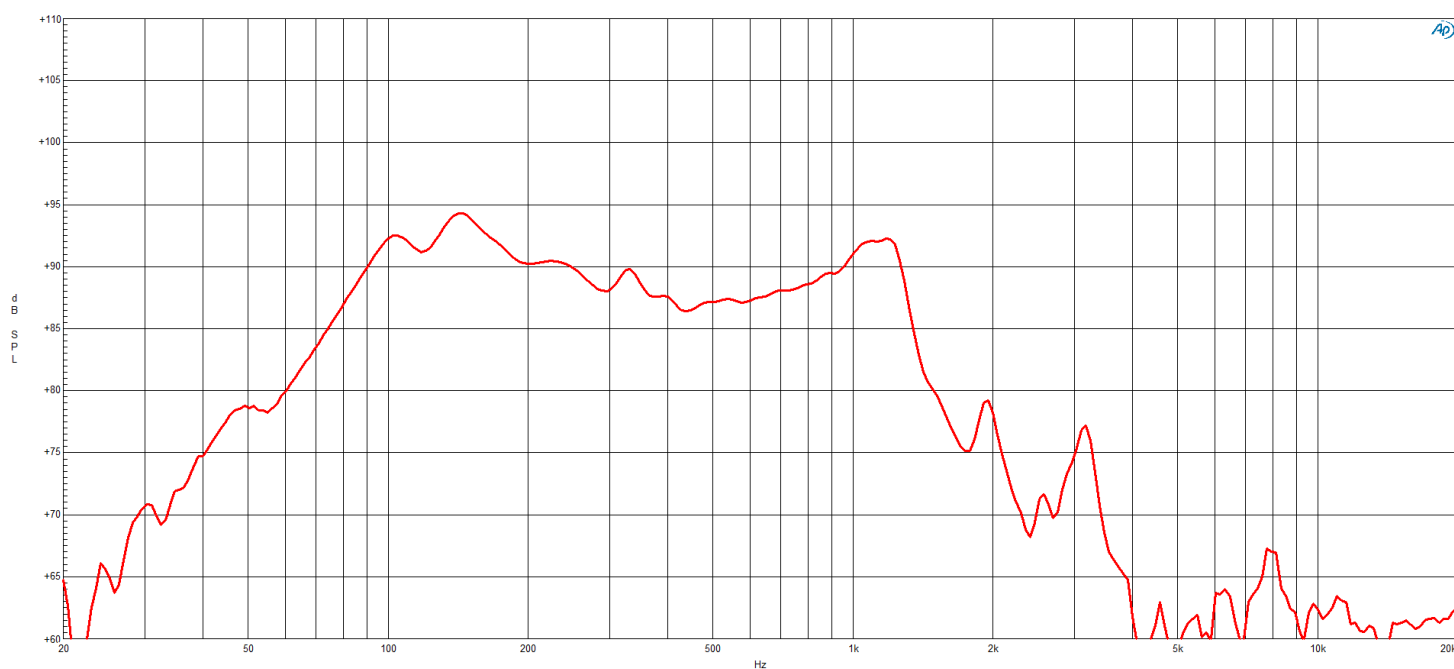
|                               |                                               |
|-------------------------------|-----------------------------------------------|
| Overall Diameter              | <b>393 mm (15.47 in)</b>                      |
| Bolt Circle Diameter          | <b>374 mm (16.7 in)</b>                       |
| Baffle Cutout Diameter        | <b>353 mm (13.9 in)</b>                       |
| Depth                         | <b>190 mm (7.5 in)</b>                        |
| Flange and Gasket Thickness   | <b>16 mm (0.63 in)</b>                        |
| Air Volume Occupied by Driver | <b>6 dm<sup>3</sup> (0.21 ft<sup>3</sup>)</b> |
| Net Weight                    | <b>9.55 kg (21.05 lb)</b>                     |
| Shipping Units                | <b>1 pcs</b>                                  |
| Shipping Weight               | <b>10.85 kg (23.92 lb)</b>                    |
| Shipping Box                  | <b>425x425x224 mm (16.73x16.73x8.82 in)</b>   |

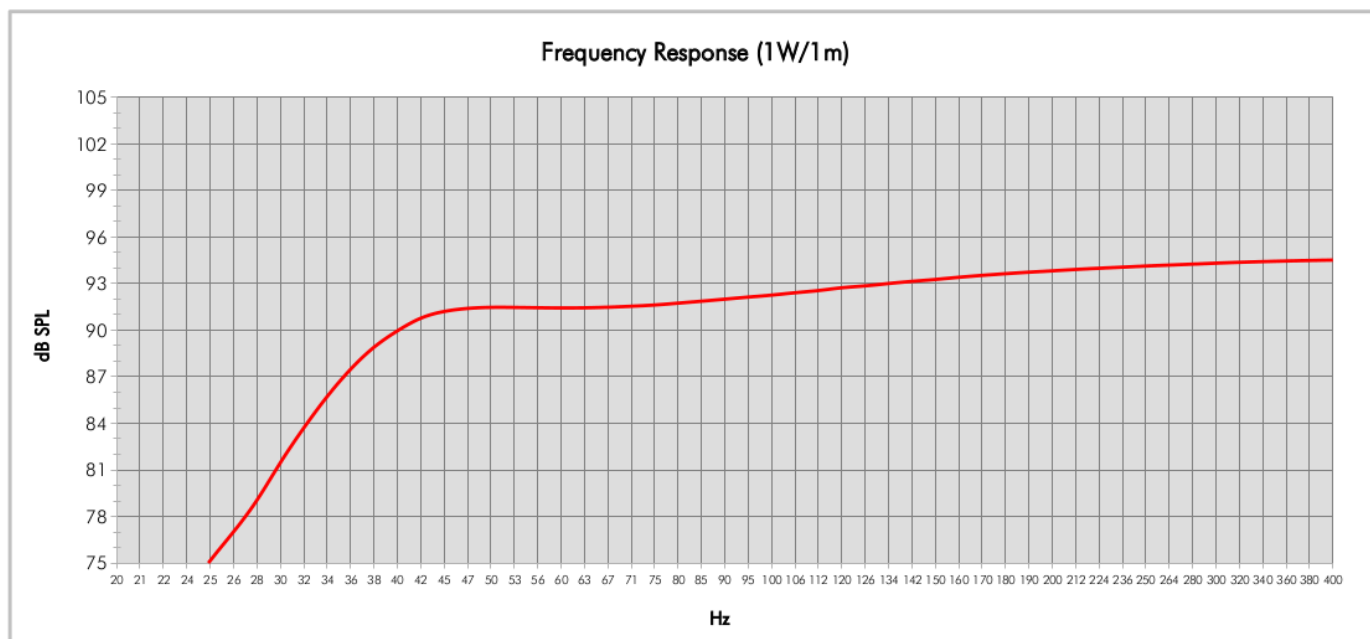
### SERVICE KITS

|                |                    |
|----------------|--------------------|
| LF recone-kits | <b>RCK15DS1004</b> |
|----------------|--------------------|

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|                               |                    |                               |                   |
|-------------------------------|--------------------|-------------------------------|-------------------|
| Model:                        | <b>15DS100</b>     | Configuration:                | <b>One Driver</b> |
| Enclosure Type:               | <b>Bass Reflex</b> |                               |                   |
| Internal Net Volume (Litres): | <b>120</b>         | QB:                           | <b>3</b>          |
| Tuning Frequency (Hz):        | <b>40</b>          | Port Area (cm <sup>2</sup> ): | <b>300,0</b>      |
| Frequency (-3 dB) (Hz):       | <b>--</b>          | Port Length (cm):             | <b>29,9</b>       |
| Frequency (-10 dB) (Hz):      | <b>33,1</b>        |                               |                   |

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