

**6CLA51** 16 Ω

**Woofer**

- 500 W continuous program power capacity
- 51 mm (2 in) aluminium voice coil
- 90 - 5000 Hz response
- 93.5 dB sensitivity

The 6CLA51 are one of the more recent additions to the cost effective and popular CL Series series of neodymium woofers. Featuring aluminum voice coils, the 6CLA51 are a perfect fit for low-cost line array or point-source applications.



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**SPECIFICATIONS**

Nominal Diameter	<b>170 mm (6.5 in)</b>
Nominal Impedance	<b>16 Ω</b>
Minimum Impedance	<b>11.2 Ω</b>
Nominal Power Handling	<b>250 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>500 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>93.5 dB</b>
Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance.	
Frequency Range	<b>90 Hz - 5000 Hz</b>
Voice Coil Diameter	<b>51 mm (2 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Polyimide</b>
Winding Depth	<b>15 mm (0.53 in)</b>
Magnetic Gap Depth	<b>8 mm (0.31 in)</b>
Flux Density	<b>1.05 T</b>
Woofers Cone Treatment	<b>WP Waterproof Front Side</b>

**PARAMETERS**

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

Fs	<b>89 Hz</b>
Re	<b>9.7 Ω</b>
Qes	<b>0.46</b>
Qms	<b>3.9</b>
Qts	<b>0.41</b>
Vas	<b>5.7 dm<sup>3</sup> (0.2 ft<sup>3</sup>)</b>
Sd	<b>132 cm<sup>2</sup> (20.5 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>0.9 %</b>
X <sub>max</sub>	<b>5.5 mm</b>
X <sub>var</sub>	<b>4.6 mm</b>
M <sub>ms</sub>	<b>14 g</b>
Bl	<b>12.8 Tm</b>
Le	<b>1.25 mH</b>
EBP	<b>193 Hz</b>

**DESIGN**

Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Radial</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Single</b>
Pole Design	<b>T-Pole</b>
Woofers Cone Treatment	<b>WP Waterproof Front Side</b>
Recommended Enclosure	<b>11 dm<sup>3</sup> (0.39 ft<sup>3</sup>)</b>
Recommended Tuning	<b>95 Hz</b>
Recommended Loading	<b>Vented Box</b>

**MOUNTING AND SHIPPING INFO**

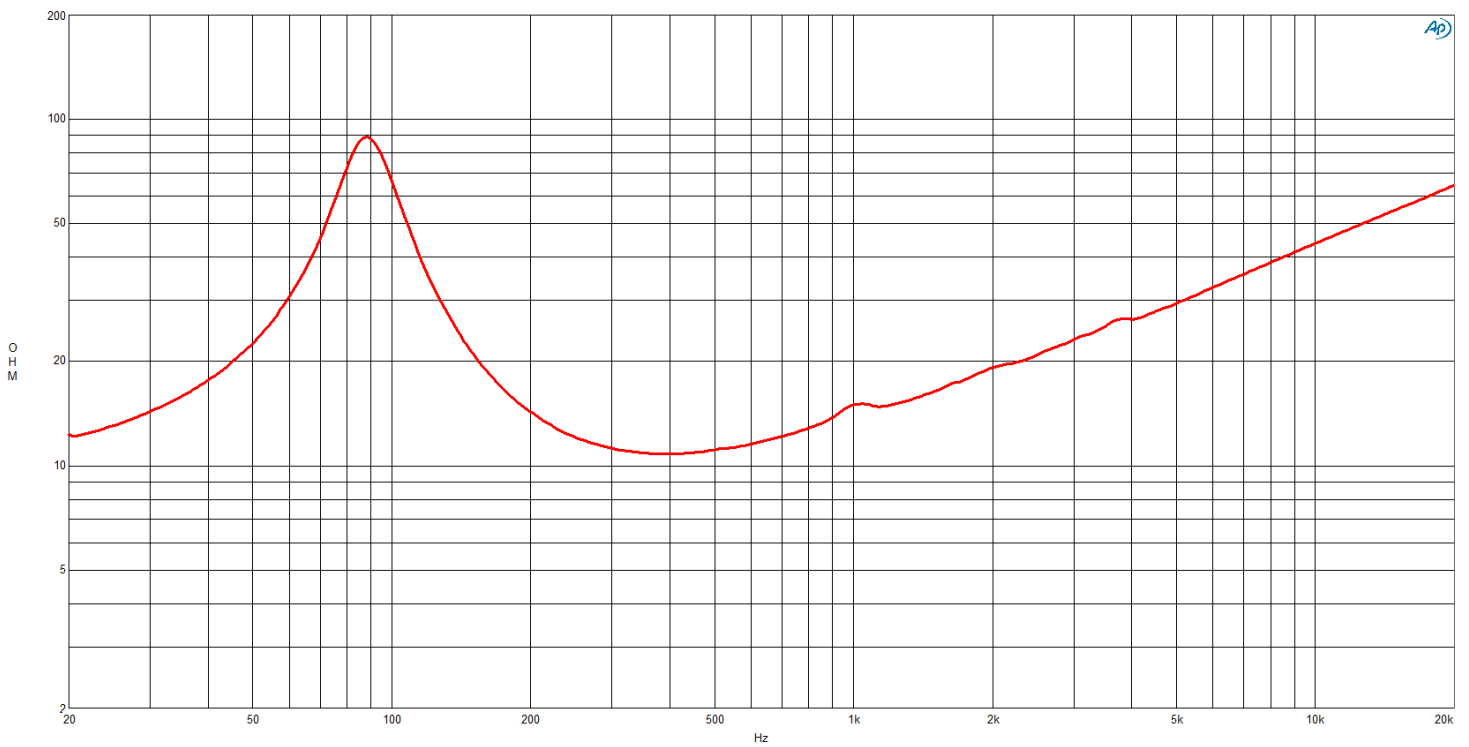
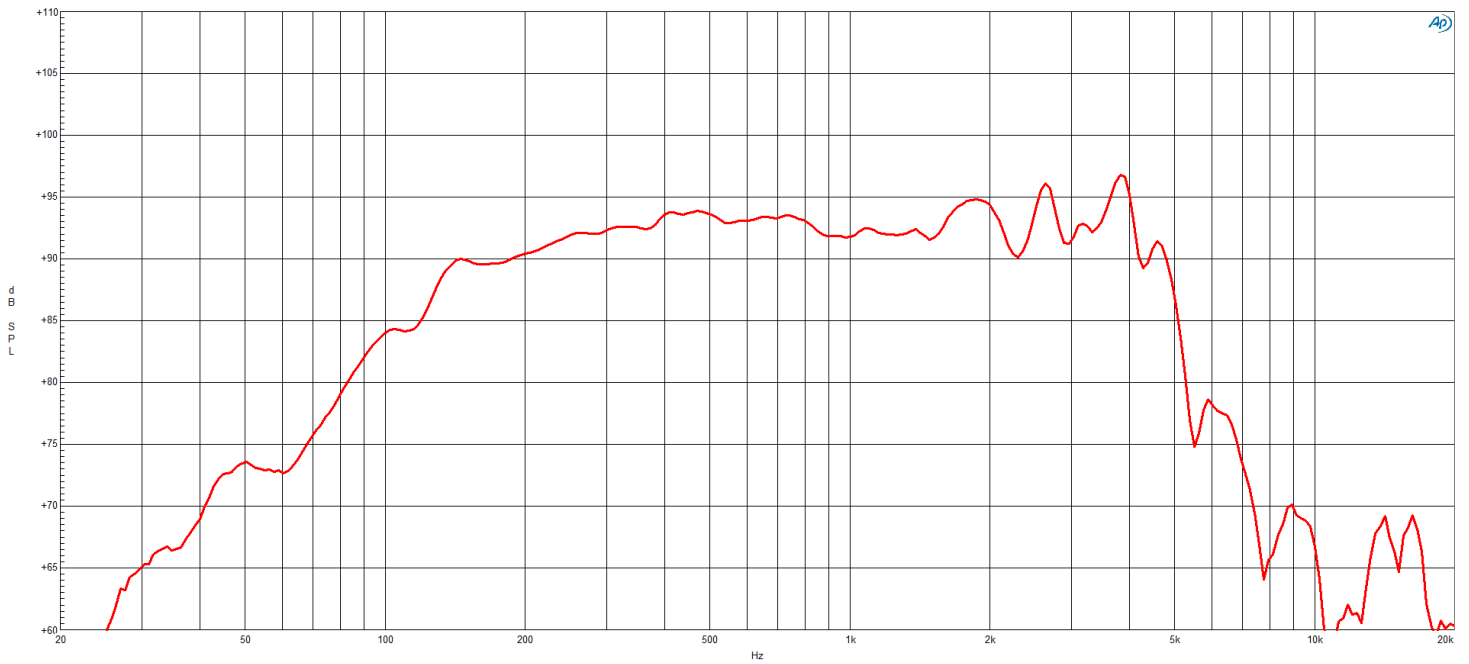
Overall Diameter	<b>180 mm (7.09 in)</b>
Bolt Circle Diameter	<b>165 mm (6.5 in)</b>
Baffle Cutout Diameter	<b>146 mm (5.75 in)</b>
Depth	<b>80 mm (4.45 in)</b>
Flange and Gasket Thickness	<b>7 mm (0.28 in)</b>
Net Weight	<b>1.2 kg (2.65 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>1.45 kg (3.2 lb)</b>
Shipping Box	<b>210x210x125 mm (8.27x8.27x4.92 in)</b>

**SERVICE KITS**

LF recone-kits	<b>RCK06CLA5116</b>
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