

6CLA51 8 Ω**Woofer**

- 500 W continuous program power capacity
- 51 mm (2 in) aluminium voice coil
- 100 - 4000 Hz response
- 94.5 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	170 mm (6.5 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Nominal Power Handling	250 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	500 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	94.5 dB
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	100 Hz - 4000 Hz
Voice Coil Diameter	51 mm (2 in)
Winding Material	Aluminium
Former Material	Polyimide
Winding Depth	13.5 mm (0.53 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.05 T
Woofers Cone Treatment	WP Waterproof Front Side

PARAMETERS

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

Fs	96 Hz
Re	5 Ω
Qes	0.36
Qms	2.9
Qts	0.32
Vas	4.3 dm³ (0.13 ft³)
Sd	132 cm² (20.5 in²)
η ₀	1.1 %
X _{max}	4.8 mm
X _{var}	4 mm
M _{ms}	15 g
Bl	11.4 Tm
Le	0.9 mH
EBP	267 Hz

DESIGN

Surround Shape	Triple Roll
Cone Shape	Radial
Magnet Material	Neodymium Inside Slug
Spider	Single
Pole Design	T-Pole
Woofers Cone Treatment	WP Waterproof Front Side
Recommended Enclosure	11 dm³ (0.39 ft³)
Recommended Tuning	95 Hz
Recommended Loading	Vented Box

MOUNTING AND SHIPPING INFO

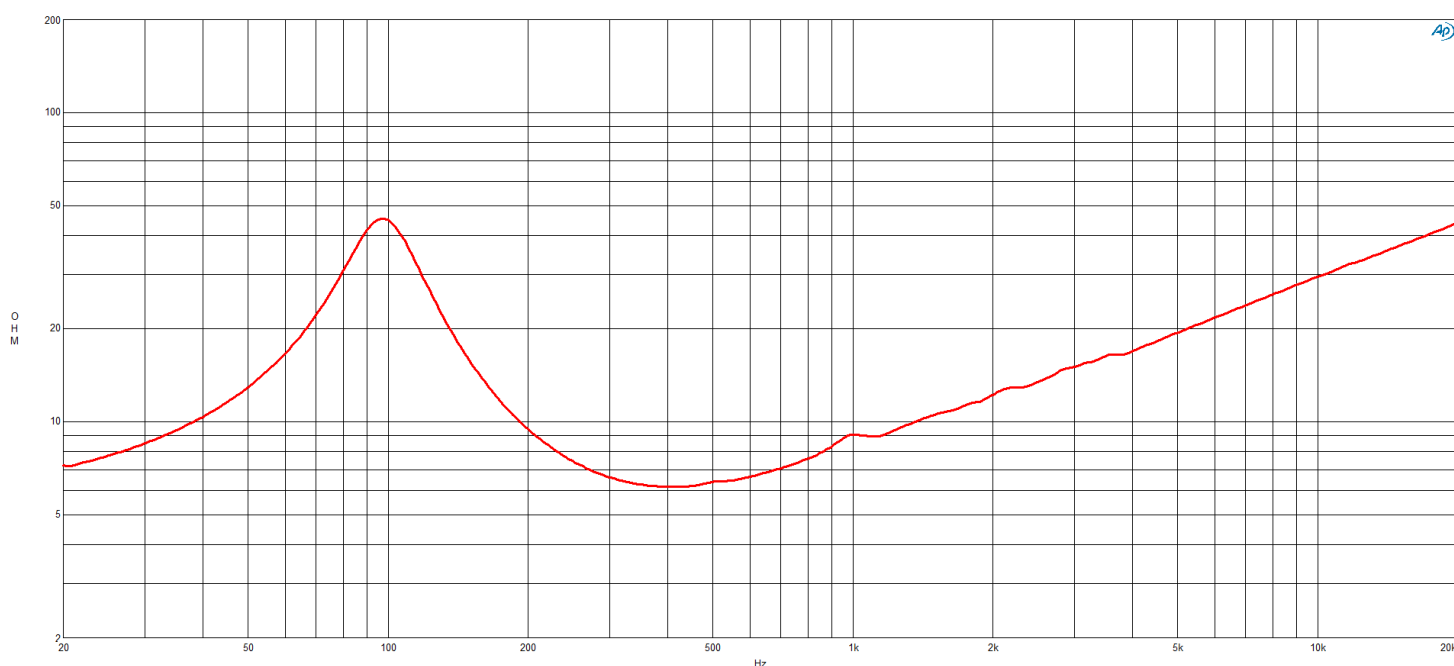
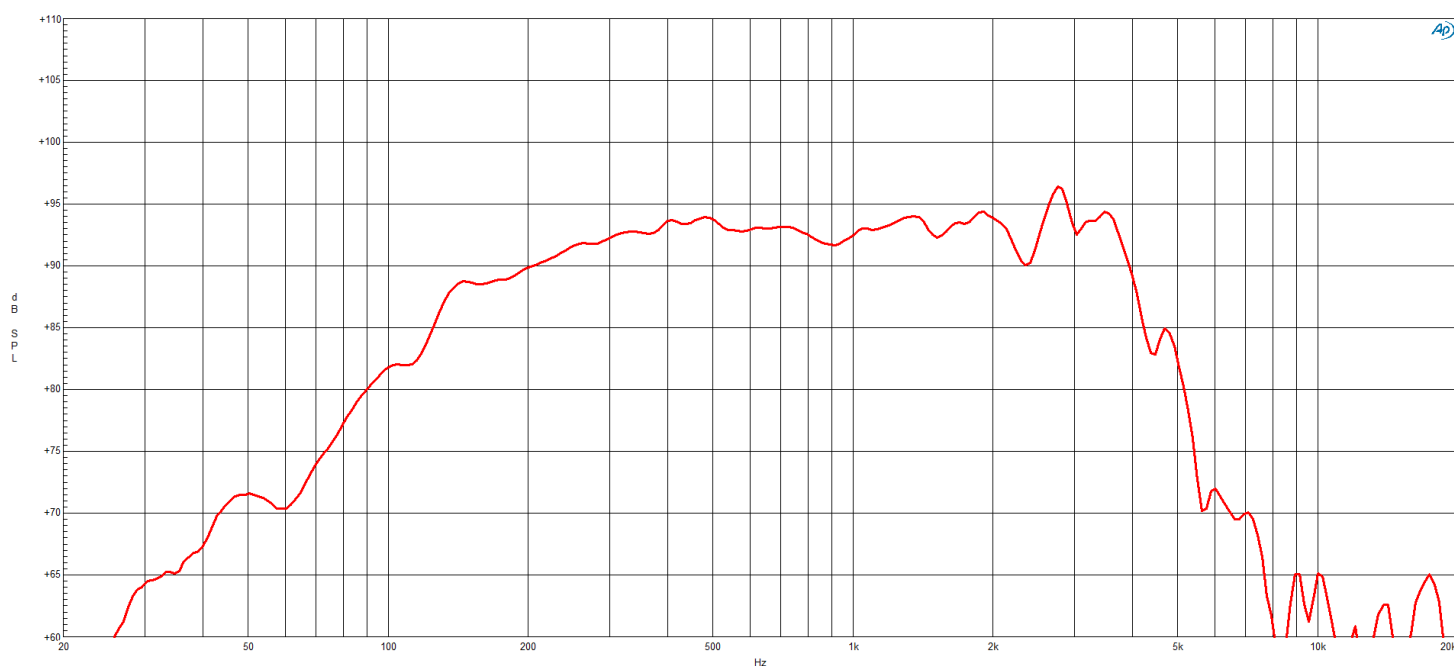
Overall Diameter	180 mm (7.09 in)
Bolt Circle Diameter	165 mm (6.5 in)
Baffle Cutout Diameter	146 mm (5.75 in)
Depth	80 mm (4.45 in)
Flange and Gasket Thickness	7 mm (0.28 in)
Net Weight	1.2 kg (2.65 lb)
Shipping Units	1 pcs
Shipping Weight	1.45 kg (3.2 lb)
Shipping Box	210x210x125 mm (8.27x8.27x4.92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

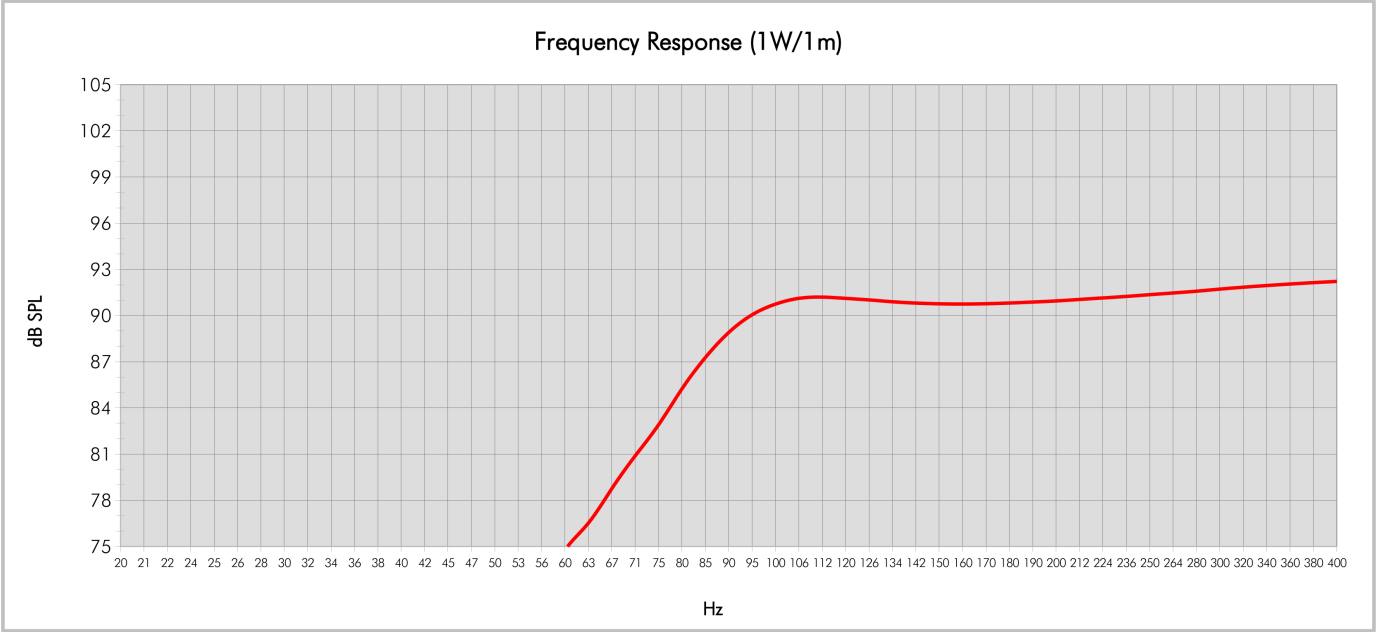
SERVICE KITS

LF recone-kits	RCK06CLA518
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Model:	6CLA51-8	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	11	QB:	3
Tuning Frequency (Hz):	95	Port Area (cm²):	51
Frequency (-3 dB) (Hz):	95,9	Port Length (cm):	8,3
Frequency (-10 dB) (Hz):	75,6		

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