

10CLA64 16 Ω**Woofer**

- 500 W continuous program power capacity
- 64 mm (2.5 in) aluminum voice coil
- 75 - 4000 Hz response
- 96 dB sensitivity

Careful optimization of our lightest woofer series, now offered with a high temperature copper-clad aluminum voice coil, is rewarded with higher sensitivity and smoother high frequency response. Larger motor makes these a good fit for many more applications, especially where flown, and manufacturing design means the CLA series can be price competitive with ferrite motor designs offering similar performance.



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SPECIFICATIONS

Nominal Diameter	250 mm (10 in)
Nominal Impedance	16 Ω
Minimum Impedance	12 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	96 dB
Applied RMS Voltage is set to 4 V for 16 ohms Nominal Impedance	
Frequency Range	75 Hz - 4000 Hz
Voice Coil Diameter	64 mm (2.5 in)
Winding Material	Aluminium
Former Material	Glass Fibre
Winding Depth	13 mm (0.51 in)
Magnetic Gap Depth	8 mm (0.31 in)
Flux Density	1.15 T
Woofer Cone Treatment	WP Waterproof Front Side

PARAMETERS

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

Fs	72 Hz
Re	10.6 Ω
Qes	0.46
Qms	3.8
Qts	0.41
Vas	21 dm³ (0.74 ft³)
Sd	320 cm² (49.6 in²)
η ₀	1.64 %
X _{max}	4.5 mm
X _{var}	5 mm
M _{ms}	33.6 g
Bl	18.8 Tm
Le	0.7 mH
EBP	157 Hz

DESIGN

Surround Shape	Double Roll
Cone Shape	Exponential
Magnet Material	Neodymium Inside Slug
Spider	Single
Pole Design	Straight Pole
Woofer Cone Treatment	WP Waterproof Front Side
Recommended Enclosure	29 dm³ (1.02 ft³)
Recommended Tuning	65 Hz

MOUNTING AND SHIPPING INFO

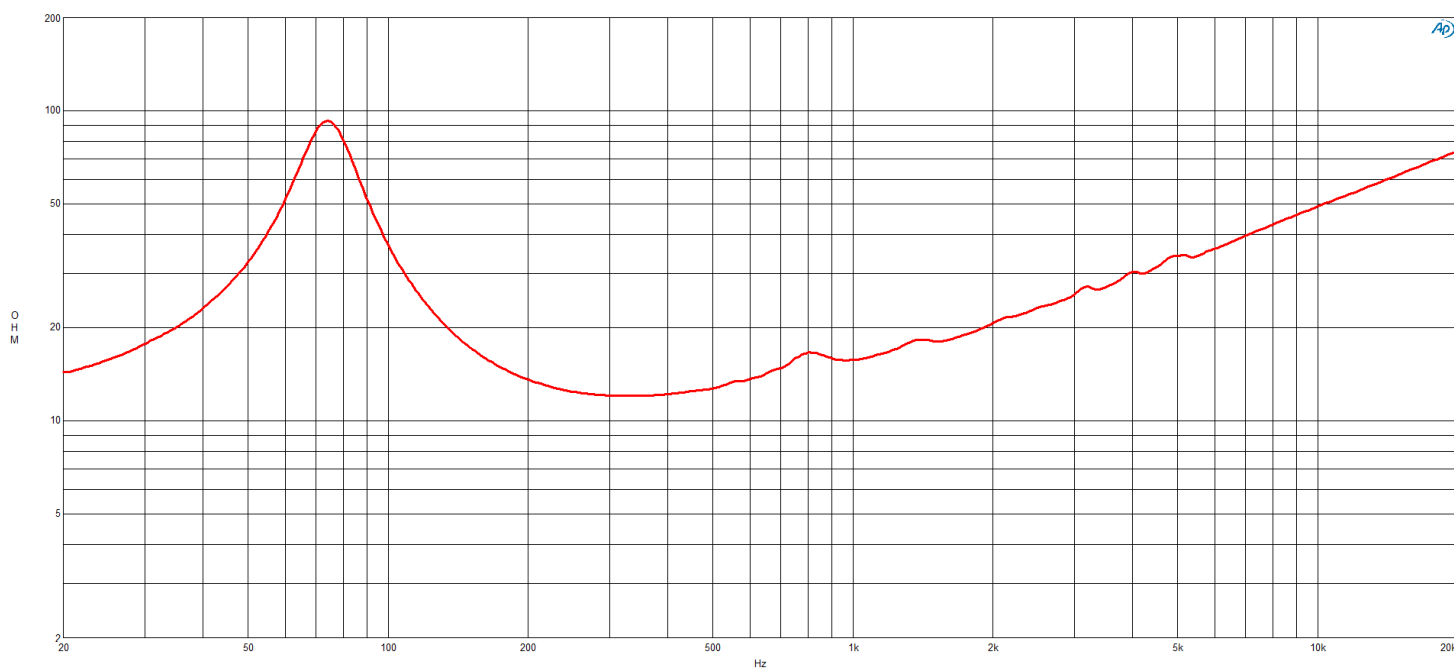
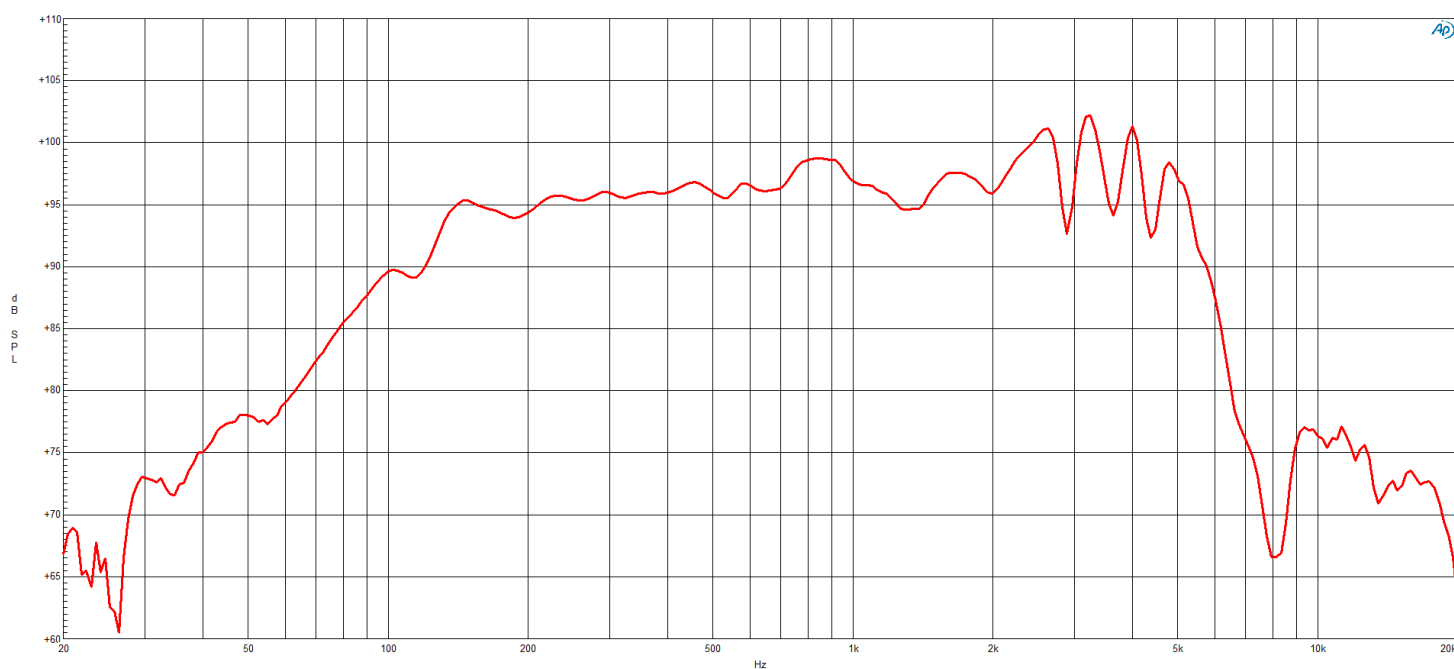
Overall Diameter	257 mm (10.12 in)
Bolt Circle Diameter	245 mm (9.65 in)
Baffle Cutout Diameter	232 mm (9.13 in)
Depth	111 mm (4.39 in)
Flange and Gasket Thickness	9 mm (0.35 in)
Air Volume Occupied by Driver	1 dm³ (0.04 ft³)
Net Weight	1.85 kg (4.08 lb)
Shipping Units	1 pcs
Shipping Weight	2.45 kg (5.4 lb)
Shipping Box	295x314x175 mm (11.61x12.36x6.89 in)

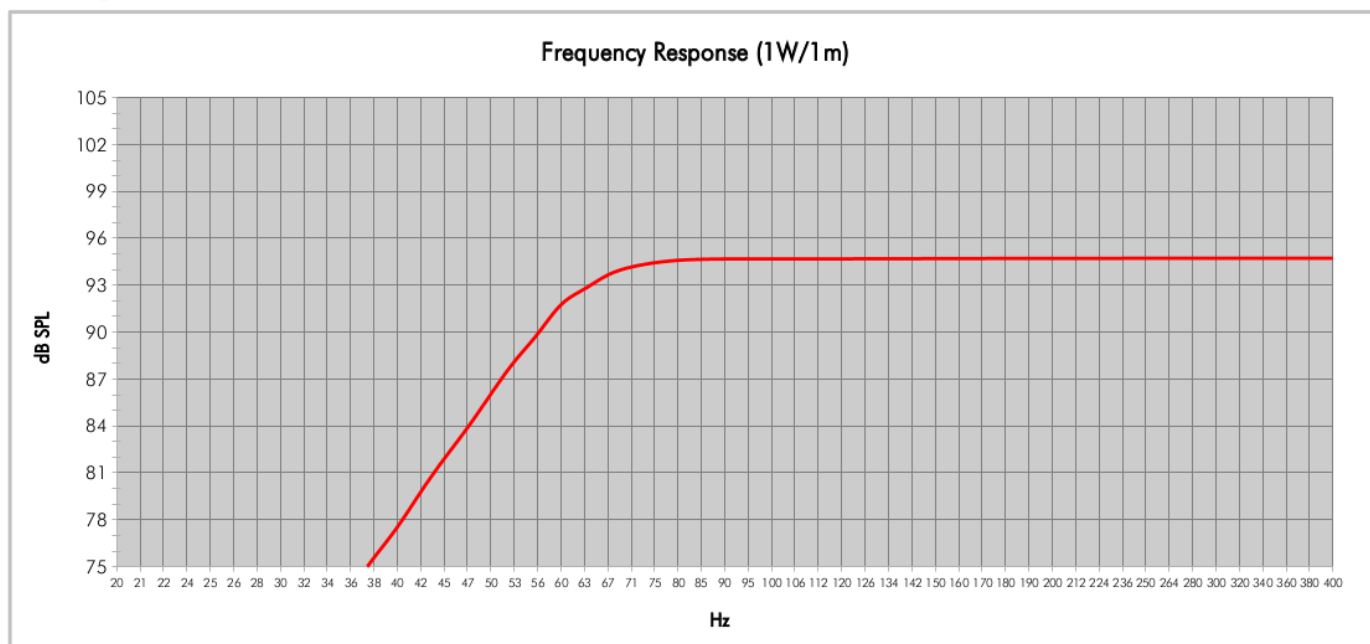
SERVICE KITS

LF recone-kits	RCK10CLA6416
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Model:	10CLA64	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	29	QB:	7
Tuning Frequency (Hz):	65	Port Area (cm²):	90,0
Frequency (-3 dB) (Hz):	59,9	Port Length (cm):	12,7
Frequency (-10 dB) (Hz):	48,3		

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