

12CLA76 8 Ω**Woofer**

- 700 W continuous program power capacity
- 76 mm (3 in) copper clad aluminum voice coil
- 50 - 3000 Hz response
- 98.5 dB sensitivity
- Ventilated voice coil gap for reduced power compression

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. An efficiently designed 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	320 mm (12 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.1 Ω
Nominal Power Handling	350 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	700 W
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	98.5 dB
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	50 Hz - 3000 Hz
Voice Coil Diameter	76 mm (3 in)
Winding Material	CCAW
Former Material	Glass Fibre
Winding Depth	16 mm (0.63 in)
Magnetic Gap Depth	11 mm (0.43 in)
Flux Density	1.2 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	52 Hz
Re	5.1 Ω
Qes	0.26
Qms	4.9
Qts	0.25
Vas	56 dm³ (1.98 ft³)
Sd	522 cm² (80.91 in²)
η ₀	2.9 %
X _{max}	5.3 mm
X _{var}	6.5 mm
M _{ms}	64 g
Bl	20.2 Tm
Le	0.44 mH
EBP	200 Hz

DESIGN

Surround Shape	Triple Roll
Cone Shape	Exponential
Magnet Material	Neodymium Inside Slug
Spider	Single
Pole Design	Straight Pole
Woofer Cone Treatment	WP Waterproof Front Side
Recommended Enclosure	40 dm³ (1.41 ft³)
Recommended Tuning	60 Hz

MOUNTING AND SHIPPING INFO

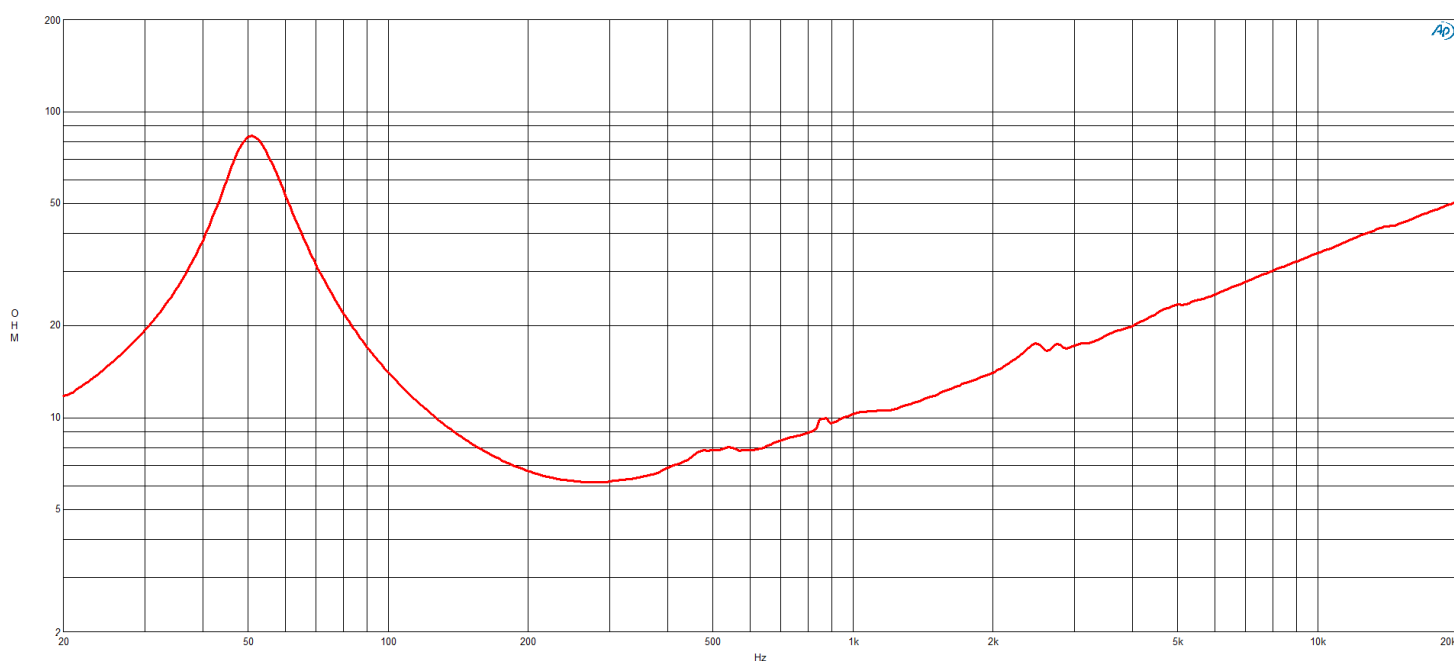
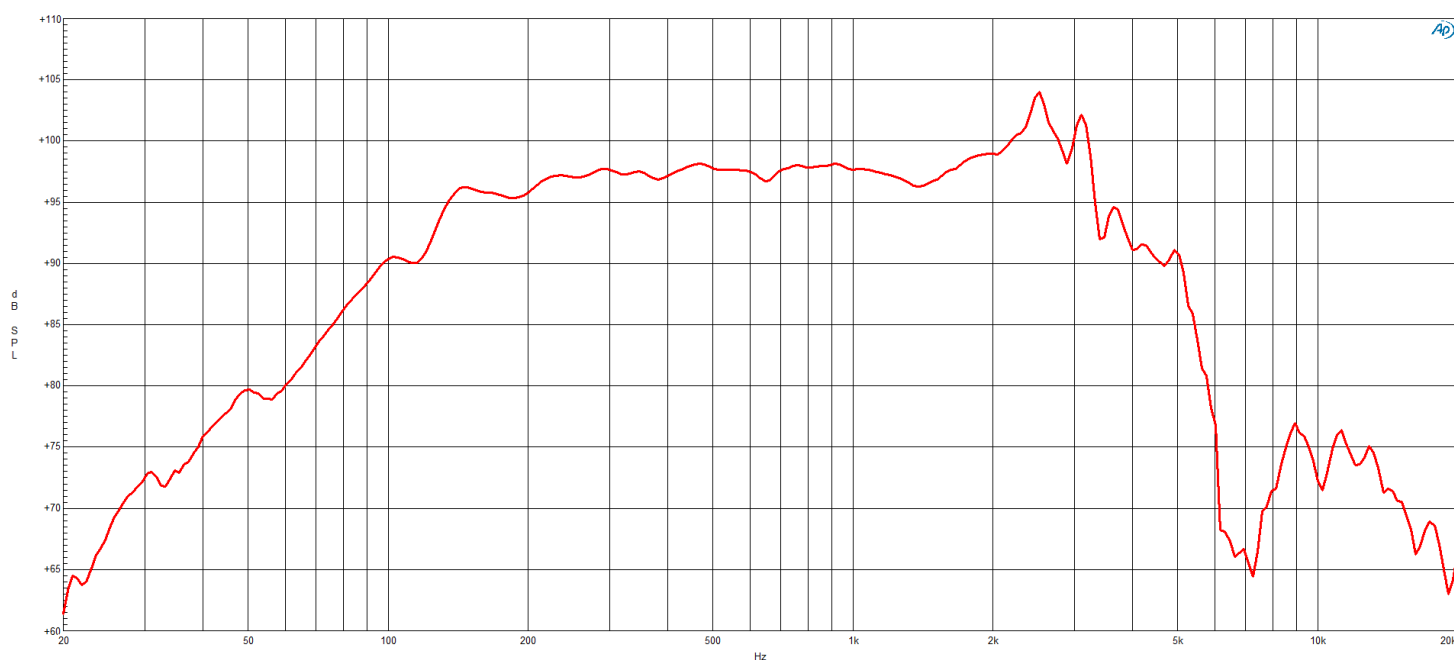
Overall Diameter	313 mm (12.32 in)
Bolt Circle Diameter	299 mm (11.77 in)
Baffle Cutout Diameter	283 mm (11.14 in)
Depth	143 mm (5.63 in)
Flange and Gasket Thickness	9 mm (0.37 in)
Air Volume Occupied by Driver	2.3 dm³ (0.08 ft³)
Net Weight	3.3 kg (7.28 lb)
Shipping Units	1 pcs
Shipping Weight	4.2 kg (9.26 lb)
Shipping Box	360x360x200 mm (14.17x14.17x7.87 in)

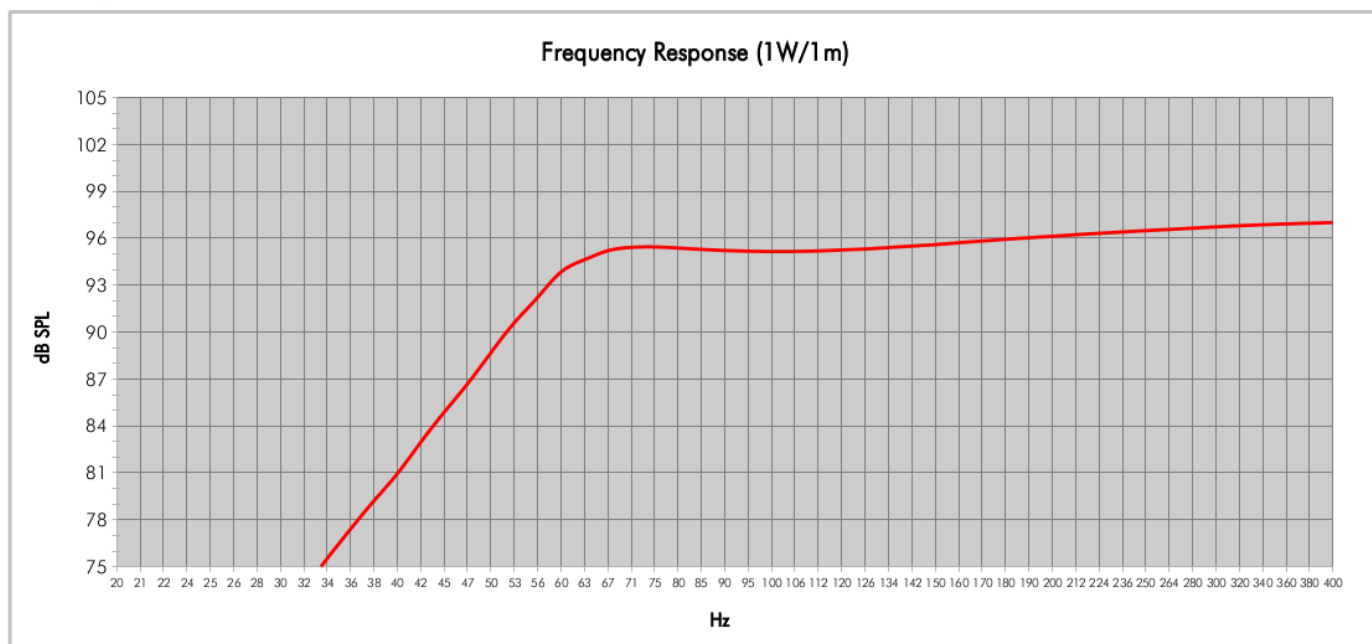
SERVICE KITS

LF recone-kits	RCK12CLA768
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Model:	12CLA76	Configuration:	One Driver
Enclosure Type:	Bass Reflex		
Internal Net Volume (Litres):	40	QB:	7
Tuning Frequency (Hz):	60	Port Area (cm²):	160,0
Frequency (-3 dB) (Hz):	62,2	Port Length (cm):	21,0
Frequency (-10 dB) (Hz):	48,2		

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