

## 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	<b>320 mm (12 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>6.1 Ω</b>
Nominal Power Handling	<b>350 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>700 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>98.5 dB</b>
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>50 Hz - 3000 Hz</b>
Voice Coil Diameter	<b>76 mm (3 in)</b>
Winding Material	<b>CCAW</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>16 mm (0.63 in)</b>
Magnetic Gap Depth	<b>11 mm (0.43 in)</b>
Flux Density	<b>1.2 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>52 Hz</b>
Re	<b>5.1 Ω</b>
Qes	<b>0.26</b>
Qms	<b>4.9</b>
Qts	<b>0.25</b>
Vas	<b>56 dm<sup>3</sup> (1.98 ft<sup>3</sup>)</b>
Sd	<b>522 cm<sup>2</sup> (80.91 in<sup>2</sup>)</b>
η0	<b>2.9 %</b>
Xmax	<b>5.3 mm</b>
Xvar	<b>6.5 mm</b>
Mms	<b>64 g</b>
Bl	<b>20.2 Tm</b>
Le	<b>0.44 mH</b>
EBP	<b>200 Hz</b>

### DESIGN

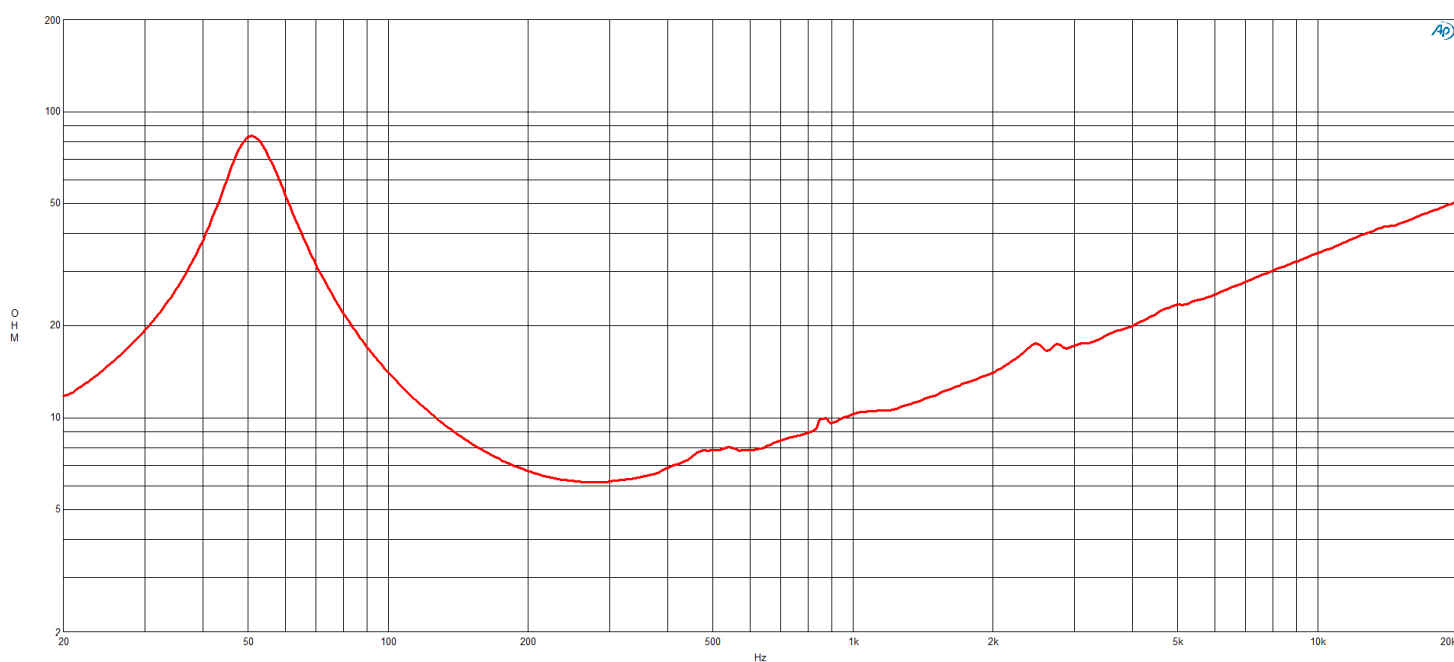
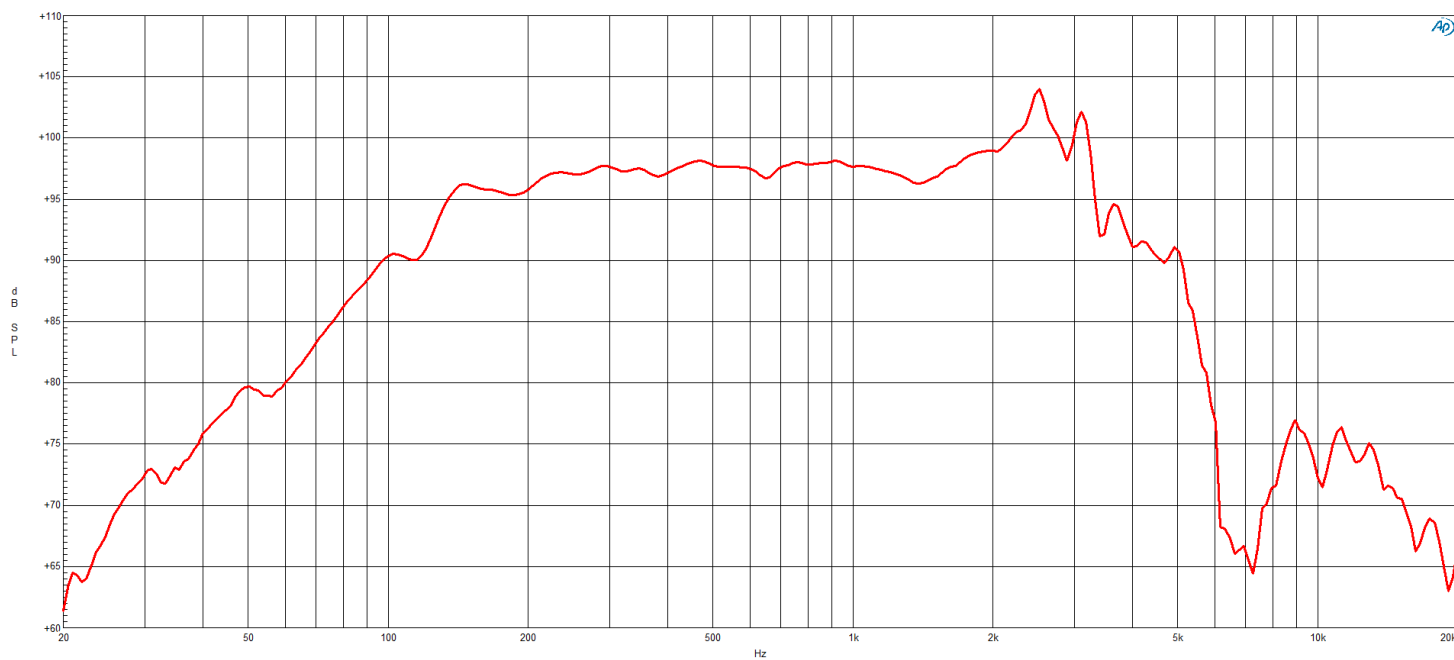
Surround Shape	<b>Triple Roll</b>
Cone Shape	<b>Exponential</b>
Magnet Material	<b>Neodymium Inside Slug</b>
Spider	<b>Single</b>
Pole Design	<b>Straight Pole</b>
Woofers Cone Treatment	<b>WP Waterproof Front Side</b>
Recommended Enclosure	<b>40 dm<sup>3</sup> (1.41 ft<sup>3</sup>)</b>
Recommended Tuning	<b>60 Hz</b>

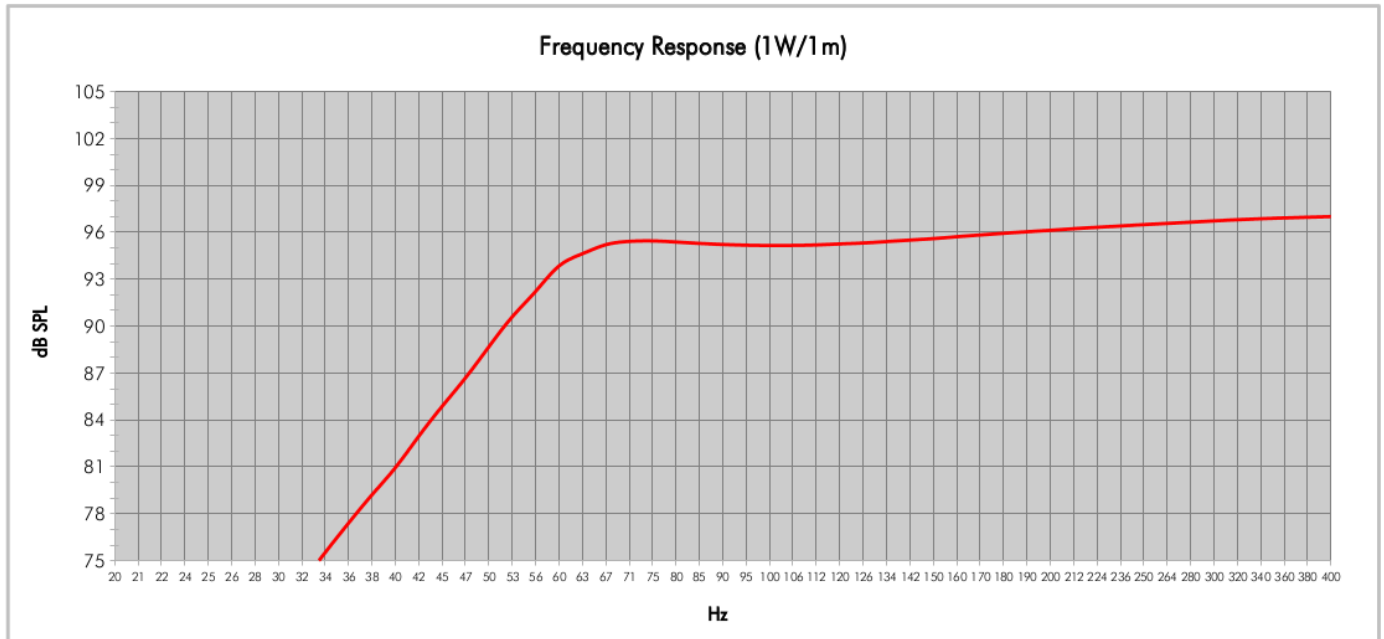
### MOUNTING AND SHIPPING INFO

Overall Diameter	<b>313 mm (12.32 in)</b>
Bolt Circle Diameter	<b>299 mm (11.77 in)</b>
Baffle Cutout Diameter	<b>283 mm (11.14 in)</b>
Depth	<b>143 mm (5.63 in)</b>
Flange and Gasket Thickness	<b>9 mm (0.37 in)</b>
Air Volume Occupied by Driver	<b>2.3 dm<sup>3</sup> (0.08 ft<sup>3</sup>)</b>
Net Weight	<b>3.3 kg (7.28 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>4.2 kg (9.26 lb)</b>
Shipping Box	<b>360x360x200 mm (14.17x14.17x7.87 in)</b>

### SERVICE KITS

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

# LF Drivers

Ø 12 inches

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