

**10CLA76** 8 Ω**Woofer**

- 800 W continuous program power capacity
- 76 mm (3 in) aluminum voice coil
- 70 - 2500 Hz response
- 96.5 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. 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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## Woofer

**SPECIFICATIONS**

Nominal Diameter	<b>250 mm (10 in)</b>
Nominal Impedance	<b>8 Ω</b>
Minimum Impedance	<b>6.5 Ω</b>
Nominal Power Handling	<b>400 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>800 W</b>
Power on Continuous Program is defined as 3 dB greater than the Nominal rating.	
Sensitivity	<b>96.5 dB</b>
Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.	
Frequency Range	<b>70 Hz - 2500 Hz</b>
Voice Coil Diameter	<b>76 mm (3 in)</b>
Winding Material	<b>Aluminium</b>
Former Material	<b>Glass Fibre</b>
Winding Depth	<b>18.5 mm (0.73 in)</b>
Magnetic Gap Depth	<b>11 mm (0.43 in)</b>
Flux Density	<b>1.2 T</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>

**PARAMETERS**

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

Fs	<b>71 Hz</b>
Re	<b>5.2 Ω</b>
Qes	<b>0.3</b>
Qms	<b>6.72</b>
Qts	<b>0.29</b>
Vas	<b>16.4 dm<sup>3</sup> (0.58 ft<sup>3</sup>)</b>
Sd	<b>320 cm<sup>2</sup> (49.6 in<sup>2</sup>)</b>
η <sub>0</sub>	<b>1.92 %</b>
X <sub>max</sub>	<b>6.5 mm</b>
X <sub>var</sub>	<b>7 mm</b>
M <sub>ms</sub>	<b>44.7 g</b>
Bl	<b>18.55 Tm</b>
Le	<b>1.14 mH</b>
EBP	<b>237 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>T-Pole</b>
Woofer Cone Treatment	<b>TWP Waterproof Both Sides</b>
Recommended Enclosure	<b>29 dm<sup>3</sup> (1.02 ft<sup>3</sup>)</b>
Recommended Tuning	<b>70 Hz</b>

**MOUNTING AND SHIPPING INFO**

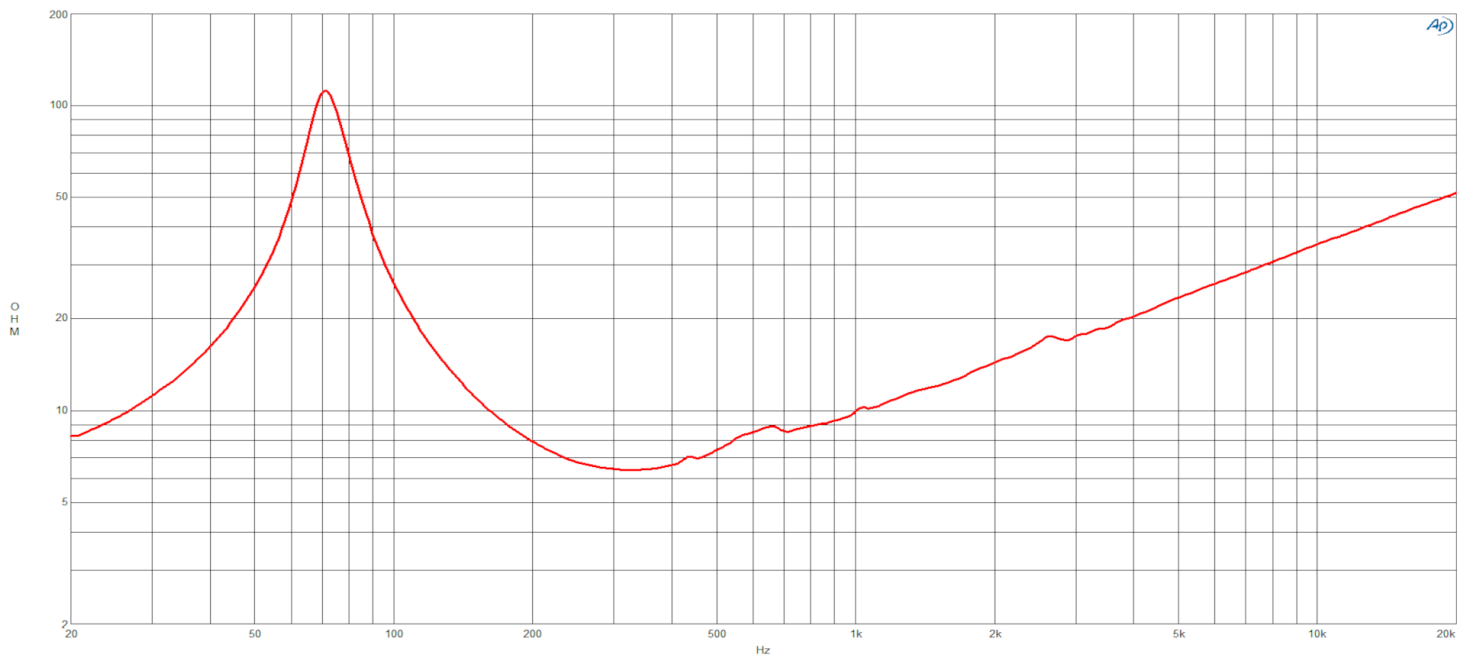
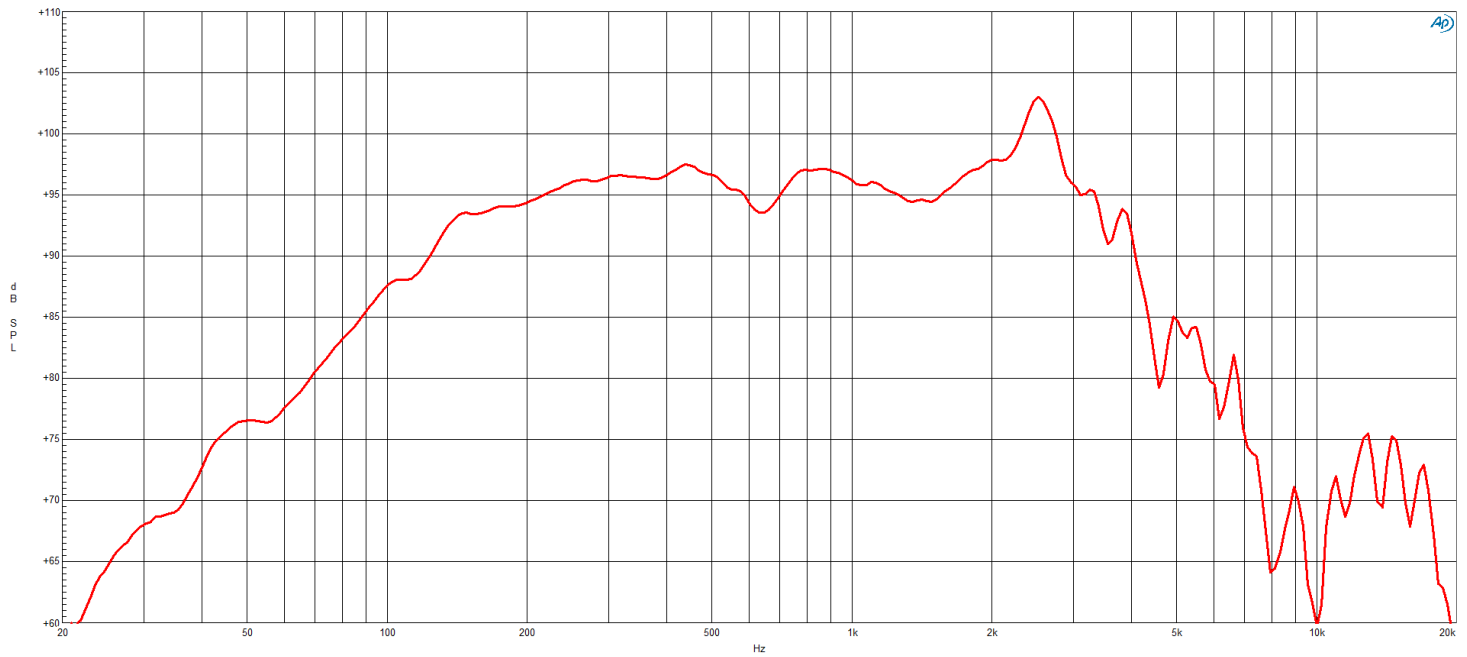
Overall Diameter	<b>258 mm (10.16 in)</b>
Bolt Circle Diameter	<b>245 mm (9.65 in)</b>
Baffle Cutout Diameter	<b>232 mm (9.13 in)</b>
Depth	<b>122 mm (4.8 in)</b>
Flange and Gasket Thickness	<b>10 mm (0.39 in)</b>
Air Volume Occupied by Driver	<b>1.6 dm<sup>3</sup> (0.06 ft<sup>3</sup>)</b>
Net Weight	<b>3.15 kg (6.94 lb)</b>
Shipping Units	<b>1 pcs</b>
Shipping Weight	<b>3.75 kg (8.27 lb)</b>
Shipping Box	<b>295x314x175 mm (11.61x12.36x6.89 in)</b>

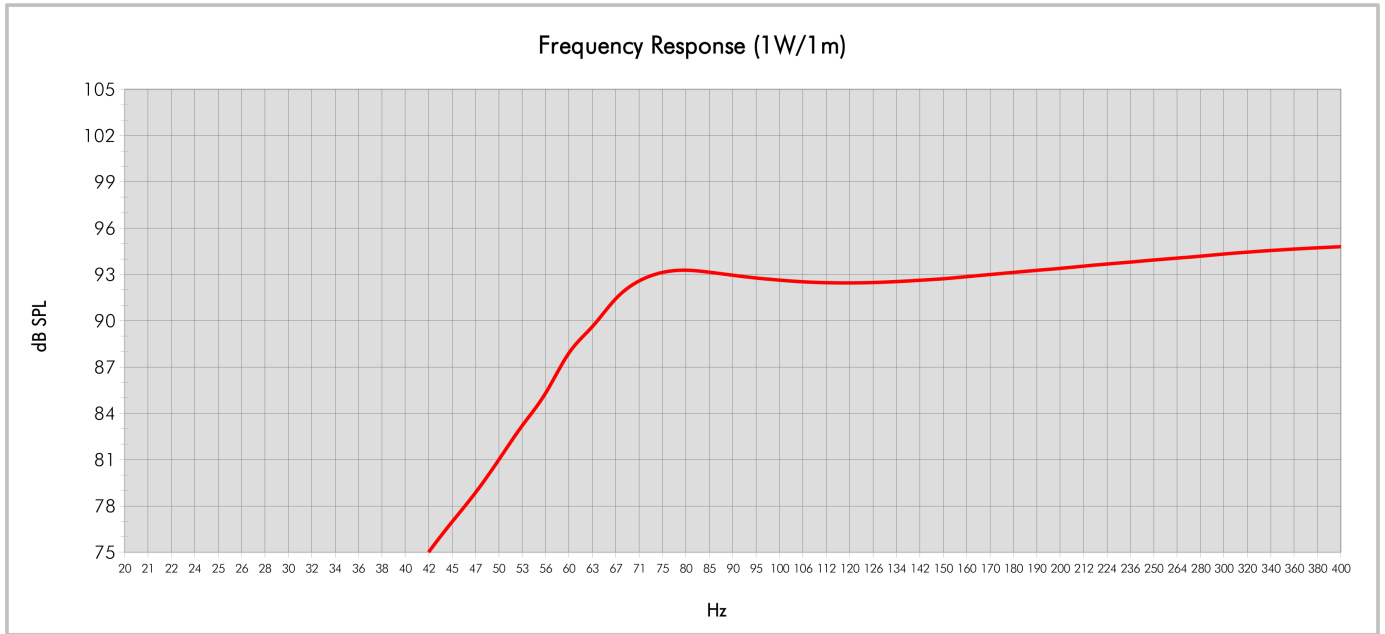
**SERVICE KITS**

LF recone-kits	<b>RCK10CLA768</b>
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**Woofers**





Model:	<b>10CLA76</b>	Configuration:	<b>One Driver</b>
Enclosure Type:	<b>Bass Reflex</b>		
Internal Net Volume (Litres):	<b>29</b>	QB:	<b>4</b>
Tuning Frequency (Hz):	<b>70</b>	Port Area (cm <sup>2</sup> ):	<b>85</b>
Frequency (-3 dB) (Hz):	<b>71,1</b>	Port Length (cm):	<b>18,9</b>
Frequency (-10 dB) (Hz):	<b>56,4</b>		

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