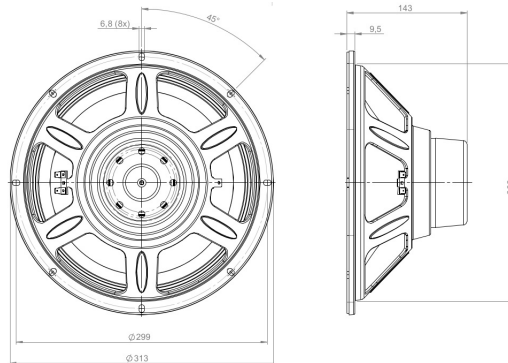


# 12CLA76

**8Ω****LF Drivers - 12.0 Inches**

- 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

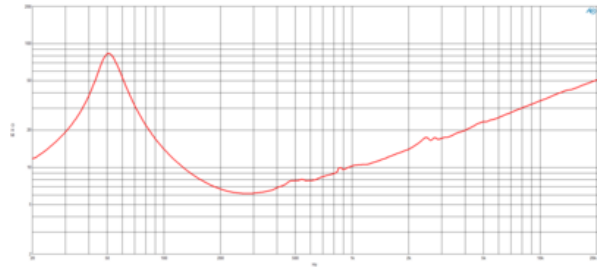
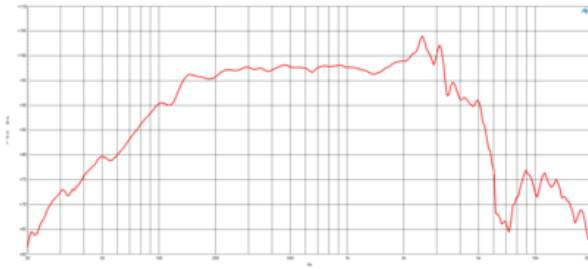


## Description

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.

# 12CLA76

## LF Drivers- 12.0 Inches



### SPECIFICATIONS

|  |                   |
|--|-------------------|
| Nominal Diameter                       | 320 mm (12.0 in)  |
| Nominal Impedance                      | 8 Ω               |
| Minimum Impedance                      | 6.1 Ω             |
| Nominal Power Handling <sup>1</sup>    | 350 W             |
| Continuous Power Handling <sup>2</sup> | 700 W             |
| Sensitivity <sup>3</sup>               | 98.5 dB           |
| Frequency Range                        | 50 - 3000 Hz      |
| Voice Coil Diameter                    | 76 mm (3.0 in)    |
| Winding Material                       | CCAW              |
| Former Material                        | Glass Fibre       |
| Winding Depth                          | 16.0 mm (0.63 in) |
| Magnetic Gap Depth                     | 11.0 mm (0.43 in) |
| Flux Density                           | 1.2 T             |

### 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 | 40.0 dm <sup>3</sup> (1.41 ft <sup>3</sup> ) |
| Recommended Tuning    | 60 Hz  |

### PARAMETERS<sup>4</sup>

|                     |  |
|---------------------|--|
| Resonance Frequency | 52 Hz  |
| Re                  | 5.1 Ω  |
| Qes                 | 0.26   |
| Qms                 | 4.9  |
| Qts                 | 0.25   |
| Vas                 | 56.0 dm <sup>3</sup> (1.98 ft <sup>3</sup> )   |
| Sd                  | 522.0 cm <sup>2</sup> (80.91 in <sup>2</sup> ) |
| η <sub>o</sub>      | 2.9 %  |
| Xmax                | 5.3 mm   |
| Xvar                | 6.5 mm   |
| Mms                 | 64.0 g   |
| Bl                  | 20.2 Txm                                       |
| Le                  | 0.44 mH  |
| EBP                 | 200 Hz   |

### MOUNTING AND SHIPPING INFO

|                               |   |
|-------------------------------|---|
| Overall Diameter              | 313 mm (12.32 in)                           |
| Bolt Circle Diameter          | 299 mm (11.77 in)                           |
| Baffle Cutout Diameter        | 283.0 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 dm <sup>3</sup> (0.08 ft <sup>3</sup> ) |
| Net Weight                    | 3.4 kg (7.5 lb)                             |
| Shipping Units                | 1   |
| Shipping Weight               | 4.3 kg (9.48 lb)                            |
| Shipping Box                  | 360x360x200 mm (14.17x14.17x7.87 in)        |

### SERVICE KIT

RCK12CLA768

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated nominal impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.