

2"**180NCD**

Neodymium Compression Driver



Key features:

- VERY COMPACT DESIGN
- POWERFUL NEODYMIUM MAGNETIC CIRCUIT
- BEST USE IN HIGH PERFORMING SPEAKER SYSTEMS AND ARRAYS

Design notes:

The 180NCD compression driver is a high performance high frequency device ideal for professional loudspeaker systems. In a ultra compact size, the driver, a neodymium based magnetic circuit provides a robust, high force BL field providing precision control of the Polyimide diaphragm assembly. The unit delivers extended frequency response and high power handling through 1.0 inch exit throat. The suspension has designed and FEM optimized venting

features to lower the harmonic distortion. The venting holes also improves the control over the dome movements at low frequencies. REDCATT has developed unique phase plug. Phase plug is FEM optimized to lower the distortion artifacts at mid frequencies.

180NCD ultra compact design ensures the driver can be used in enclosure designs where the space is very limited,

such as line array systems.

Magnetic Circuit Design
Redcatt has focused on designing an optimized neodymium based magnetic circuit capable of delivering the highest level of performance and value. This effort has resulted in a device that offers uncompromising performance featuring high efficiency, exceptional transient response and controlled distortion characteristics, all

Specifications:

General specs

Nominal Diameter: **2"**Rated Impedance: **16 ohm**

Power handling

AES Power: **40 watts**Program Power: **80 watts**Peak Power: **160 watts**

Voice Coil

Diameter: **1.8 in.**Winding wire: **CCAR**Former: **Nomex**

T/S Parameters

Resonant frequency: **1100 Hz**Nominal sensitivity: **110 dB**Re: **12 ohm**Le: **n/a mH**

Design details

Dome Material: **Polymer**Surround material: **Polymer**Magnet material: **Neodymium**Overall diameter: **75 mm**Bolt circle diameter: **57 mm**Throat diameter: **26mm mm**Number of mounting holes: **4**Depth (front to rear): **46.5 mm**Net weight: **550g**

Ordering codes:

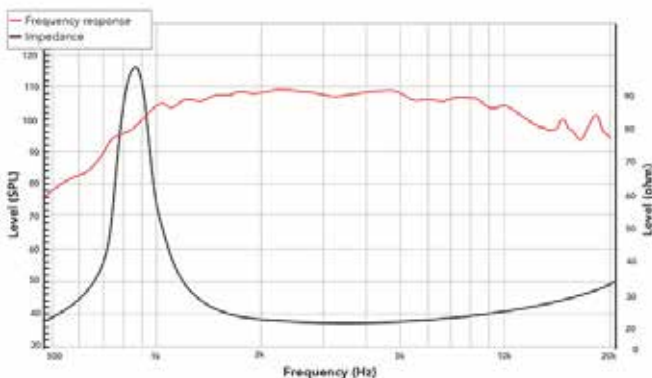
180NCDX-086B

Recone kits:

RC180NCDX-086B

In many cases REDCATT produces 4 ohms, 8 ohms and 16 ohms versions. Indicate what impedance do you need in your request.

Frequency response & Impedance



Frequency response measured on IAC baffle

2D drawing

