

1"

140NCD

Neodymium Compression Driver



Key features:

- VERY HIGH PERFORMANCE AT SMALL SIZE
- 2-WAY AND MULTI-WAY SPEAKER SYSTEMS

Design notes:

The 140NCD compression driver is a high performance high frequency device ideal for professional loudspeaker systems. In a ultra compact size, the driver, is 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 1.3inch 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.

140NCD 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. The neodymium circuit is optimized to generate the minimum amount of flux modulation providing exceptional stability. This effort has resulted in a device that offers uncompromising performance featuring high efficiency, exceptional transient response and controlled distortion characteristics, all that in very compact size.

Specifications:

General specs

Nominal Diameter: 1"

Rated Impedance: 8 ohm

Power handling

AES Power: 30 watts

Program Power: 60 watts

Peak Power: 120 watts

Voice Coil

Diameter: 1.4 in.

Winding wire: CCAR

Former: kapton

2.5 mm

T/S Parameters

Resonant frequency: 1200 Hz

Nominal sensitivity 5.5 ohm

Re: n/a

Le: n/a

n/a

n/a liters

n/a cm²

109 dB

n/a grams

n/a

n/a mH

Design details

Dome Material: Polymer

Surround material: Polymer

Magnet material: n/a

Overall diameter: 3 mm

Bolt circle diameter: n/a mm

Throat diameter: 95 mm

Number of mounting holes: 76 mm

Depth (front to rear): n/a mm

Net weight: 4

47.85 mm

538g

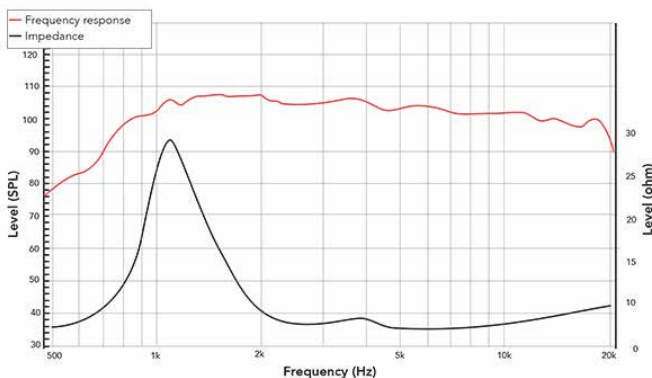
Ordering codes:

140NCDX8-077

Recone kits:

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

