

1"**140FCD**

Ferrite Compression Driver



Key features:

- HIGH PERFORMANCE, HIGH QUALITY COMPRESSION DRIVER
- FITS ANY BUDGET
- DESIGNED FOR USAGE IN 2-WAY & MULTI-WAY SYSTEMS

Design notes:

The 140FCD compression driver is a very high performance high frequency device ideal for professional loudspeaker systems. The driver, a ferrite 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. REDCATT has developed unique motor system magnetic gap volume tuning.

This feature dramatically improves THD and improves the transient response of the driver.

Diaphragm Assembly
The driver features a 36mm Polyimide diaphragm formed as single piece with Polyimide suspension. The suspension has designed and FEM optimized venting features to lower the harmonic distortion.

The dome is carefully attached to a high temperature Nomex voice coil

former that withstands the long term power characteristics typically seen in professional applications. The acoustic output exits through a radial phase plug and a 1.0 inch throat aperture. Nominal sensitivity is 110.5 dB 1 watt / 1 meter.

REDCATT uses state of the art adhesives in all assembly steps. Our voice coil to dome bonding is unique process, developed to greatly improve the power handling capabilities. REDCATT unique and

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

106 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: 100 mm

Number of mounting holes: 76 mm

Depth (front to rear): n/a mm

Net weight: 4

48 mm

1.1kg

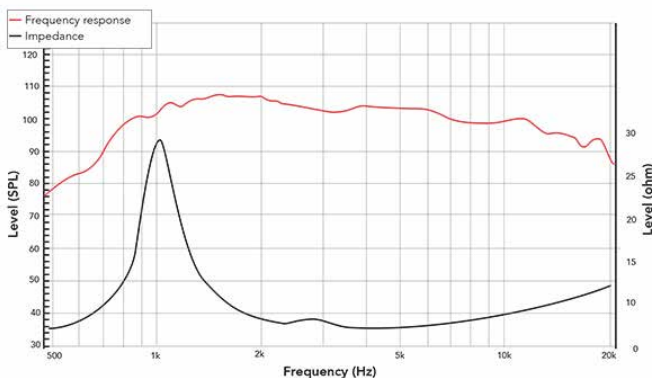
Ordering codes:

140FCDX8-087

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

