1" | 140FCD

Ferrite Compression Driver

REDCATT

Key features:

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

Design notes:

The 140FCD is a very high performance device ideal for professional loudspeaker systems. The unit delivers extended frequency response and high power handling through 1.0inch 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.
The driver features a 36mm Polyimide diaphragm formed as single piece with Polyimide suspension. The suspension has designed and FEM optimized venting features to lover 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 1watt / 1 meter.

Our voice coil to dome bonding is unique process, developed to greatly improve the power handling capabilities. REDCATT precise adhesives dispensing, combined with our in-house developed dome treatments are further improving the long term reliability of this product.

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

T/S Parameters	
Resonant frequency:	1200 Hz
Nominal sensitivity	106 dB
Re:	5.5 ohm
Le:	n/a mH

Design details	
Dome Material:	Polymer
Surround material:	Polymer
Magnet material:	Ferrite
Overall diameter:	100 mm
Bolt circle diameter:	76 mm
Throat diameter:	26mm mm
Number of mounting holes:	4
Depth (front to rear):	48 mm
Net weight:	1.1kg

Ordering codes:

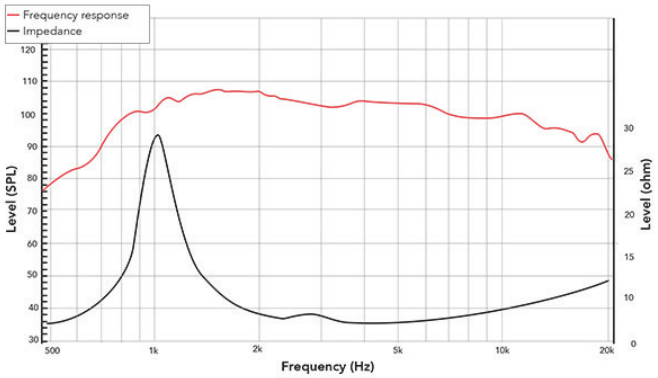
140FCDX-087

Recone kits:

RC140FCDX-087

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