

## Ordering code: 140FCD-087 High Frequency Compression Driver

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
70 watts	110.5 dB	1,020 Hz	1,000 Hz - 20 kHz	35.5mm	EW CCAW	Polyimide	Ferrite



The 140FCD compression driver is a very high performance high frequency device ideal for professional loudspeaker systems. The driver's 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 1.0inch 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.

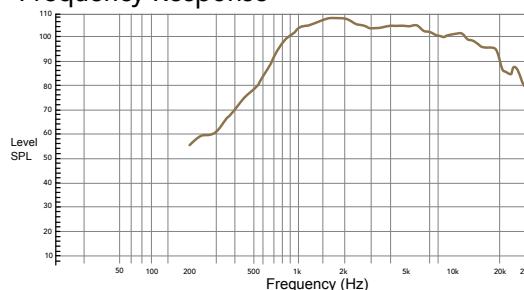
### Diaphragm Assembly

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 1.3 inch throat aperture. Nominal sensitivity is 110.5 dB 1watt / 1 meter.

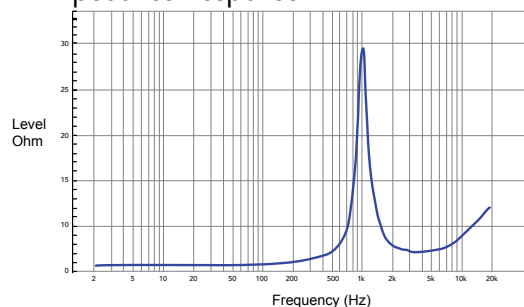
REDCATT uses state of the art adhesives in all assembly steps. Our voice coil to dome bonding is unique process, developed to greatly improve the power handling capabilities. REDCATT unique and precise adhesives dispensing, combined with our in-house developed dome treatments are further improving the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

### Frequency Response



Frequency response measurement with transducer mounted on constant directivity horn

### Impedance Response



Impedance measured in free air without a horn

### General Specifications

Exit Throat Diameter:	25.4 mm (1.0 in.)
Rated Impedance:	8 Ohm
Power Handling:	
AES Power:	40 Watts
Program Power:	70 Watts
Sensitivity:	110.5 dB
Frequency Range:	1,020 Hz - 18,000 Hz
Minimum Recommended Xover Freq.:	>1500 Hz
Minimum Impedance:	7.1 Ohms at 25C
Voice Coil Diameter:	35.5mm (1.45 in.)
Voice Coil Winding Wire Material:	Edge Wound CCAW
Diaphragm:	Polyimide composite
Flux Density:	1.75 T
Magnetic Material:	Ferrite
Fs	1,020 Hz

### Mounting Information

No. Of mounting holes	4
4x M6 Holes	76mm (3 in.) Dia.
Total depth	48mm (1.9 in.)
Total outside dimension	100mm (3.95 in.) Dia.
Net weight	0.99 kg (2.2 lbs.)

