140NCD

APPLICATION:

• Ideal for high output, high quality two-way and multiple way systems, line array systems, where very small form factor is required

REDCAT®

Compact, High Frequency Compression Driver

Ordering code: 140NCD-077

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
70 watts	110.5 dB	1,040 Hz	1,020 Hz - 20 kHz	35.5mm	EW CCAW	Polyimide	Neodymium

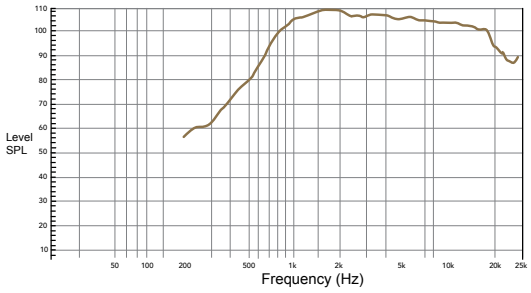
The 140NCD compression driver is a high performance high frequency device ideal for professional loudspeaker systems. In a ultra compact size, the driver's neodymium based magnetic circuit provides a robust, high force BL field providing precision control of the Polyimide diaphragm assembly. The unit delivers extended frequency response and high power handling through 1.3inch exit throat. The suspension has designed and FEM optimized venting features to lover 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

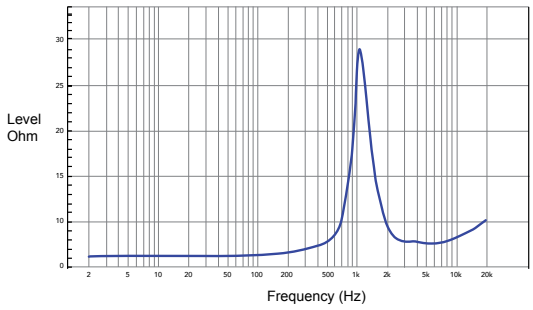
Redcatt has focused on designing an optimized neodymium based magnetic circuit capable of delivering the highest level of performance and value. The neodymium circuit is optimized to generate the minimum amount of flux modulation providing exceptional stability. This effort has resulted in a device that offers uncompromised performance featuring high efficiency, exceptional transient response and controlled distortion characteristics, all that in very compact size.

Frequency Response



Frequency response measurement with transducer mounted on constant directivity horn

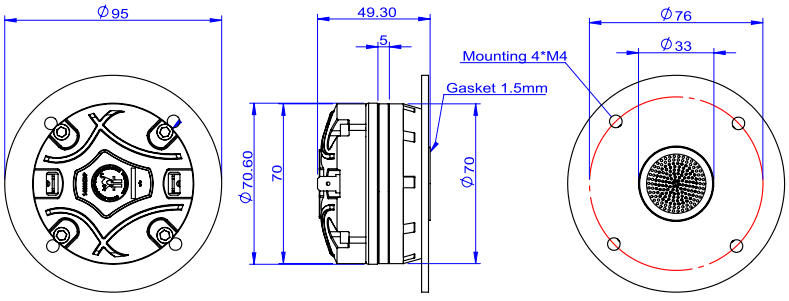
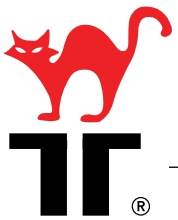
Impedance Response



Impedance measured in free air without a horn

General Specifications

Exit Throat Diameter:	25.4 mm (1.0 in.)
Rated Impedance:	8 Ohm (or 16 Ohm)
Power Handling:	
AES Power:	40 Watts
Program Power:	70 Watts
Sensitivity:	110.5 dB
Frequency Range:	1,020 Hz - 20,000 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:	1.80 T
Magnetic Material:	Neodymium
Fs	1,040 Hz

Mounting Information

No. Of mounting holes	4
2x M5 Holes	76mm (3 in.) Dia.
Total depth	49mm (1.9 in.)
Total outside dimension	70.6mm (2.8 in.) Dia
Net weight	0.7 kg (1.54 lbs.)