REDCATT®

APPLICATION:

• smaller enclosure designs, portable products such as:. conferencing systems, portable PA, stage monitors, etc

CX8F-140F

Ordering code: CX8F140FX4-374

Ferrite-neo Coaxial

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
500 / 70 watts	95 / 105 dB	92Hz/ 950Hz	60 Hz - 15,000 Hz	2" / 1.4"	CCAW / ALR	Paper / Fabric / Polyamide	Ferrite / Neo

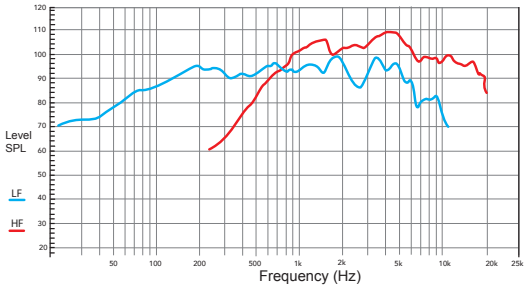
The CX8F-140F is a high efficiency, (95dB 1watt / 1 meter) 8-inch coaxial speaker with very linear frequency response characteristics and high power handling capability. The mid-woofer utilizes REDCATT developed paper pulp cone that has proven its performance in many ours successful designs. The HF section was designed around our most successful dome assembly as used in 140FCD and has integrated symmetrical aluminum horn. The combination of used materials with our state of the art quality production yields in well performing driver even in the most demanding and extreme weather conditions.

General Specifications	LF	HF
Nominal Diameter:	203 mm (8 in.)	36 mm (1.4")
Rated Impedance:	4 ohm	4 ohm
Power Handling:		
AES Power:	300 Watts	35 Watts
Program Power	500 Watts	70 Watts
Power Compression @-10dB	0.8dB	
Power Compression @ 0dB	1.1dB	
Power Compression @ Max Power	1.9dB	
Min. Recommended Xover Freq.:	1,400 Hz	
Recommended Enclosure Volume:	6 - 12 Liters	
Cone Design:	Str. Gmtry	
Front Plate Thickness:	8 mm	
Winding Height:	12 mm	
Fs	92 Hz	950 Hz
Re	3.06 Ohm	3.8 Ohm
Sd	213.8 cm^2	
Qms	7.7	
Qes	0.6	
Qts	0.56	
Vas	9.2 Liters	
Mms	18.05 g	
BL product (force factor)	7.7 Tm	
Peak to peak displacement (mm)	16 mm	
Le (mH @1kHz)	0.3	
Coveradge		110° nominal
Overall diameter	208.6 mm	
No. of mounting holes	8	
Bolt circle diameter	197 mm	
Front mount baffle cutout dia.	178 mm Nom.	
Rear mount baffle cutout diameter	193 mm Nom.	
Total depth	109 mm	
Flange and gasket thickness	10.65mm	
Net weight	2.8 kg	

Magnetic circuit design

REDCATT engineers have developed ferrite-neodymium based magnetic circuit, capable of delivering the highest level of performance in a small form factor. The combination of ferrite and neodymium delivers an excellent magnetic performance. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability. Aluminum demodulation ring is assembled in the HF section.

Frequency Response



Frequency response measurement with transducer mounted on IEC half space baffle.

Impedance Response