CX6F-140F

APPLICATION:

• smaller enclosure designs, portable products such as:. conferencing systems, mobile studio recordings, portable PA, etc.

Ferrite-Neo Coaxial

Ordering code: CX6F-140FX4-361B

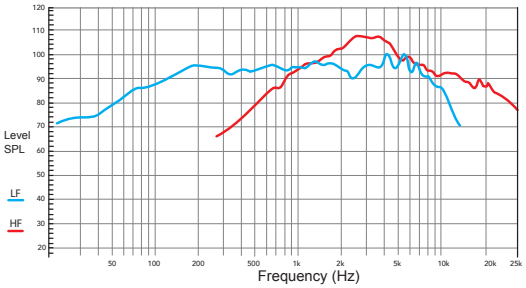
Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
400 / 70 watts	95 / 103 dB	110Hz/ 1.1 kHz	80 Hz - 15,000 Hz	1.7" / 1.4"	CCAW / ALR	Paper / Fabric / Polyamide	Ferrite / Neo

The CX6F-140F is a high efficiency, (95dB 1watt / 1 meter) 6.5-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 our successful designs. The HF section was designed around our most successful dome assembly as used in 140FCD. The mini waveguide is CNC machined from single piece of aluminum, given the whole assembly incredible precision. The combination of used materials with our state of the art quality production yields in well performing driver even in the most demanding extreme conditions.

Magnetic circuit design

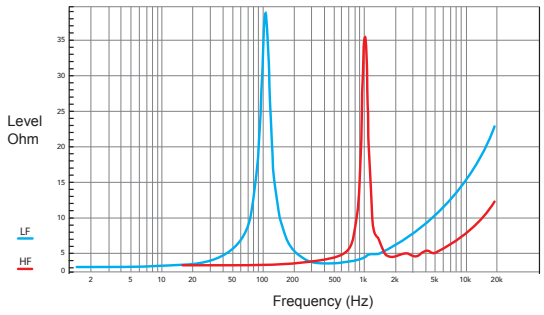
REDCATT engineers have developed ferrite-neodymium based magnetic circuit, capable of delivering the highest level of performance in a small form factor. The combination of ferrite and neodymium delivers an excellent magnetic performance. The magnetic circuit design is optimized to generate the minimum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

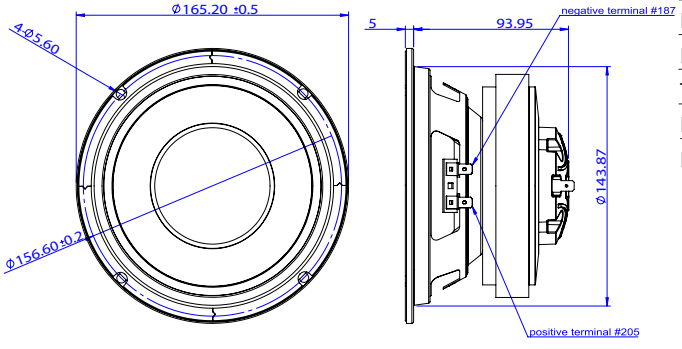
Frequency Response



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

Impedance Response





General Specifications	LF	HF
Nominal Diameter:	165 mm (6.5 in.)	36 mm (1.4")
Rated Impedance:	4 ohm	4 ohm
Power Handling:		
AES Power:	200 Watts	35 Watts
Program Power	400 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:	4 - 7 Liters	
Cone Design:	Str. Gmtry	
Front Plate Thickness:	6 mm	
Winding Height:	10.3 mm	
Fs	110 Hz	1,100 Hz
Re	3.06 Ohm	3.8 Ohm
Sd	141 cm^2	
Qms	6.8	
Qes	0.49	
Qts	0.46	
Vas	5.4 Liters	
Mms	10.4 g	
BL product (force factor)	6.8 Tm	
Peak to peak displacement (mm)	9 mm	
Le (mH @1kHz)	0.31	
Coveradge		100° nominal
Overall diameter	165.2 mm	
No. of mounting holes	4	
Bolt circle diameter	156.6 mm	
Front mount baffle cutout dia.	144 mm Nom.	
Rear mount baffle cutout diameter	152 mm Nom.	
Total depth	96 mm	
Flange and gasket thickness	2mm	
Net weight	2.0 kg	