8" | CX8F140 Coaxial Ferrite-Neodymium Driver

Key features:

- LF AND HF INTEGRATED FERRITE-NEODYMIUM MAGNETIC CIRCUIT
- ALUMINUM SYMMETRICAL HORN
- GOOD OFF-AXES FREQUENCY RESPONSE

Design notes:

The CX8F-140F is a high efficiency, (92.5dB 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.

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.

Specifications:

General specs (LF/HF)	
Nom. Diameter:	8"
Rated Imp.:	8 ohm
Power handling (LF/HF)	
AES Power:	150/30 watts
Program Power:	300/60 watts
Peak Power:	600/120 watts
Voice Coil (LF/HF)	
Diameter:	2/1.4 in.
Winding wire:	CCAW
Former:	Glass Fiber/
Winding height:	12/2.5 mm

T/S Parameters (LF/HF)	
Resonant frequency:	86/1000 Hz
Re:	5.6/5.5
Qes:	0.63
Qms:	9.06
Qts:	0.59
Vas:	10.7 liters
Sd:	213.8 cm2
Sensitivity:	92.44/103
Mms:	20.2 grams
Bl:	9.93
Le:	0.47 mH

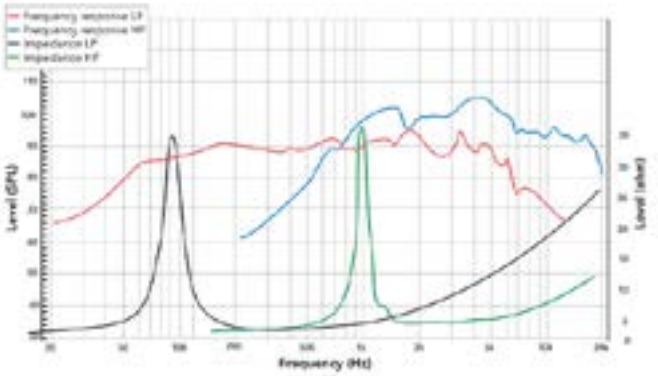
Design details (LF/HF)	
Surround Material:	Fabric/Poly-
Cone/ dome material:	Paper/Polymer
Spider:	Nomex/n/a
Plate thickness:	8 mm
Peak to peak linear cone displacement	11.4 mm
Overall diameter:	207 mm
Bolt circle diameter:	197.2 mm
Baffle cutout dia.:	178 mm
Number of mounting holes:	8
Depth (flange to rear):	107.5 mm
Net weight:	2.8KG

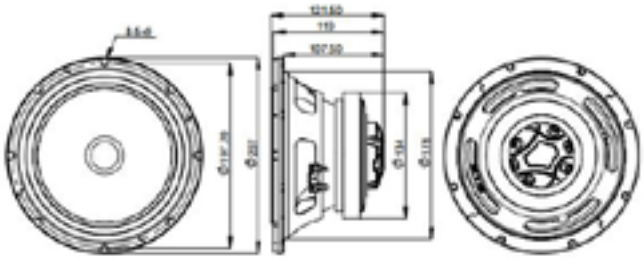
Ordering codes:
CX8F140X-374B

Recone kits:

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