

10"

CX10F-140F

Coaxial Ferrite-Neodymium Driver



Key features:

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

Design notes:

The CX10F-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 of our 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 de-

livers 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)

Nominal Diameter: 10in
Rated Impedance: 8 / 8 Ohm

Power handling (LF/HF)

AES Power: 250 / 35 Watts
Program Power: 500 / 70 Watts
Peak Power: 1000 / 140 Watts

Voice Coil (LF/HF)

Diameter: 2 in. / 36mm
Winding wire: CCAW / ALU
Former: TIL / Poly
Winding height: 12 mm / N/A

T/S Parameters (LF/HF)

Resonant frequency: 67 / 1,800 Hz
Re: 6.2 / 5.4 ohm
Qes: 0.76 / N/A
Qms: 5.2 / N/A
Qts: 0.67 / N/A
Vas: 36 liters / N/A
Sd: 346.4cm² / N/A
Sensitivity: 95 / 109 dB
Mms: 26 grams / N/A
Bl: 9.4
Le: 0.3 / 0.15 mH

Design details (LF/HF)

Surround Material: fabric / poly.
Cone/ dome material: paper / poly.
Spider: Nomex
Plate thickness: 8 mm / N/A
Peak to peak linear cone Displacement: 14.2 mm / N/A
Overall diameter: 256 mm
Bolt circle diameter: 245 mm
Baffle cutout dia.: 234 mm
Number of mounting holes: 8
Depth (flange to rear): 120.7 mm
Net weight: 2.9 Kg

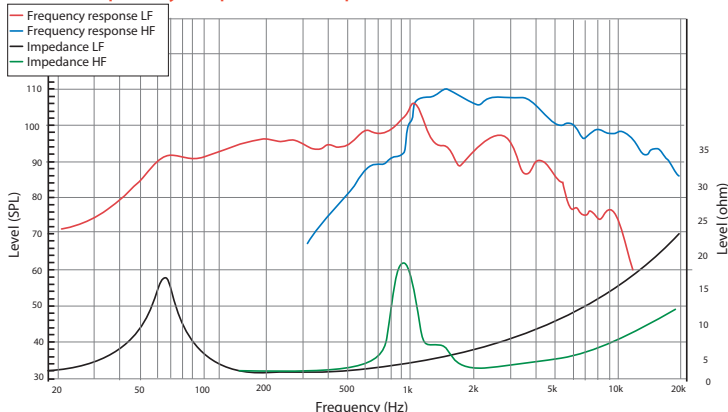
Ordering codes:

4 ohm version: N/A
8 ohm version: CX10F-140FX8-375
16 ohm version: N/A

Recone kits:

Woofer: RCCX10F-140FX4-375C
Dome: RCCX10F-140FX4-375D

Frequency response & Impedance



Frequency response measured on IAC baffle

2D drawing

