10" CX10F140F

Coaxial

Key features:

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

Design notes:

The CX10F-140F is a high efficiency, (93.5dB 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	
Nominal Diameter:	10 "
Rated Impedance:	8 ohm
Power handling	
AES Power:	200/30 watts
Program Power:	400/60 watts
Peak Power:	800/120 watts
Voice Coil	
Diameter:	50.8/35.6 mm
Winding wire:	CCAW
Former:	Glass Fiber/kapton
Winding height:	12/2.5 mm

T/S Parameters	
Resonant frequency:	75/1000 Hz
Re:	5.5/5.5 ohm
Qes:	0.75
Qms:	5.03
Qts:	0.65
Vas:	24.2 liters
Sd:	346.4 cm²
Sensitivity:	95.03 dB
Mms:	31.2 grams
Bl:	10.36
Le:	0.49 mH

Design details	
Surround Material:	fabric/PEN
Cone material:	Paper CF/PEN
Spider:	Nomex
Plate thickness:	8 mm
Overall diameter:	256 mm
Bolt circle diameter:	245 mm
Baffle cutout dia.:	231.5 mm
Mounting holes:	8
Depth:	120.7 mm
Net weight:	3.1 kg

Ordering codes:

DR-10-020-8R-B2-C0001

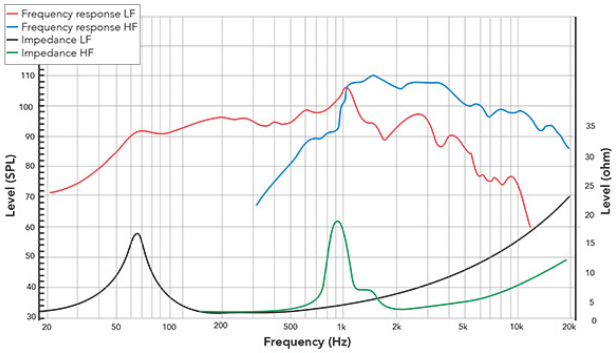
Legacy code: **CX10F-140FX8-375B**

Recone kits:

RCCX10F-140FX8-375B

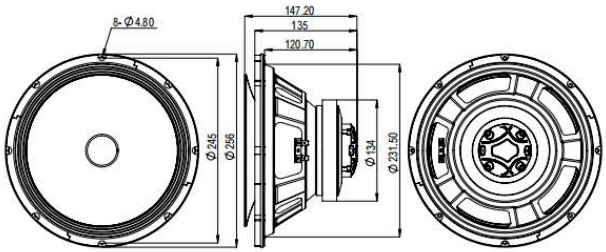
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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