



## Key features:

- INTEGRATED ALUMINUM SYMMETRICAL HORN
- HIGH SENSITIVITY

## Design notes:

The CX12F-140F is a high efficiency, (95 dB 1 watt / 1 meter) 12-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 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: 12"  
Rated Imp.: 8 ohm

### Power handling (LF/HF)

AES Power: 200/30 watts  
Program Power: 400/60 watts  
Peak Power: 800/120 watts

### Voice Coil (LF/HF)

Diameter: 2/1.4 in.  
Winding wire: Copper  
Former: Glass Fiber/  
Winding height: 15.8/2.5 mm

### T/S Parameters (LF/HF)

Resonant frequency: 56/1000 Hz  
Re: 5.5/5.5  
Qes: 0.54  
Qms: 6.53  
Qts: 0.5  
Vas: 63.9 liters  
Sd: 530.93 cm<sup>2</sup>  
Sensitivity: 95.2/105  
Mms: 50.3 grams  
Bl: 13.4  
Le: 0.7 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: 15.2 mm  
Overall diameter: 320 mm  
Bolt circle diameter: 302 mm  
Baffle cutout dia.: 281 mm  
Number of mounting holes: 8  
Depth (flange to rear): 142.5 mm  
Net weight: 5.3Kg

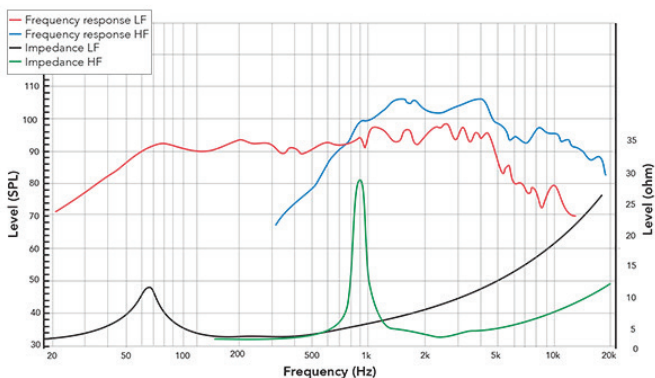
### Ordering codes:

CX12F140X-376B

### 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

