12" CX12F140F

Coaxial

Key features:

- **INTEGRATED ALUMINUM SYMMETRICAL HORN**
- **HIGH SENSITIVITY**

Design notes:

The CX12F-140F is a high efficiency, (95 dB 1watt / 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 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:	**12 "**
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:	**Copper**
Former:	**Glass Fiber/kapton**
Winding height:	**1538/2.5 mm**

T/S Parameters	
Resonant frequency:	**56/1000 Hz**
Re:	**5.5/5.5 ohm**
Qes:	**0.54**
Qms:	**6.53**
Qts:	**0.5**
Vas:	**63.9 liters**
Sd:	**530.93 cm²**
Sensitivity:	**96.83 dB**
Mms:	**50.3 grams**
Bl:	**13.4**
Le:	**0.7 mH**

Design details	
Surround Material:	**fabric/PEN**
Cone material:	**Paper CF/PEN**
Spider:	**Nomex**
Plate thickness:	**8 mm**
Overall diameter:	**320 mm**
Bolt circle diameter:	**302 mm**
Baffle cutout dia.:	**281 mm**
Mounting holes:	**8**
Depth:	**142.5 mm**
Net weight:	**5.3 kg**

Ordering codes:

DR-12-045-8R-B2-C0001

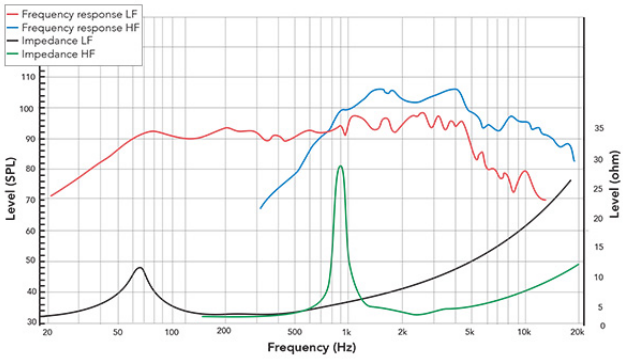
Legacy code: **CX12F-140FX8-376B**

Recone kits:

RCCX12F-140FX8-376B

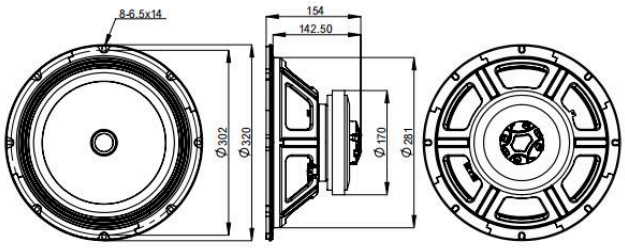
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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