Coaxial Ferrite-Neodymium Driver







Key features:

- LF AND HF COMBINED MAG NETIC CIRCUIT
- COMPACT, BUT POWERFUL SPEAKER
- MAGNETIC CIRCUIT COMBIN
 ING FERRITE AND NEODYMIUM
 MAGNETS

Design notes:

The CX6F-140F is a high efficiency, (95dB 1watt / 1 meter) 6.5-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 our successful designs. The HF section was designed around our most successful dome assembly as used in 140FCD. The mini waveguide is CNC machined from single piece of alumi

num, given the whole assembly incredible precision. The combination of used materi als with our state of the art quality produc tion yields in well performing driver even in the most demanding extreme 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)

Winding height:

Nominal Diameter:	6in (36mm)	
Rated Impedance:	8 / 4 Ohm	
Power handling (LF/HF)		
AES Power:	200 / 35 Watts	
Program Power:	400 / 70 Watts	
Peak Power:	800 / 140 Watts	
Voice Coil (LF/HF)		
Diameter:	1.75 in. / 36mm	
Winding wire:	CCAW / ALU	
Former:	TIL / Kapton	

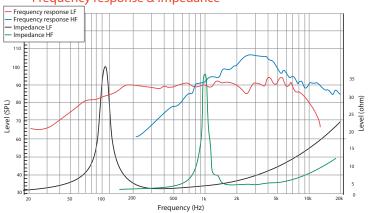
T/S Parameters (LF/HF)	
Resonant frequency:	112 / 1,000 Hz
Re:	5.9 / 3.8 ohm
Qes:	0.6 / N/A
Qms:	4.64 / N/A
Qts:	0.53 / N/A
Vas:	6.1 liters / N/A
Sd:	141cm ² / N/A
Sensitivity:	95 / 108 dB
Mms:	9.2 g / N/A
BI:	8
Le:	0.23 mH / N/A

Design details (LF/HF)	
Surround Material:	fabric / poly.
Cone/ dome material:	paper / poly.
Spider:	Nomex
Plate thickness:	6 mm / N/A
Peak to peak linear cone Displacement	8.8 mm / N/A
Overall diameter:	165.2 mm
Bolt circle diameter:	156.6 mm
Baffle cutout dia.:	143.9 mm
Number of mounting holes:	4
Depth (flange to rear):	93.95 mm
Net weight:	2.0 kg

Ordering codes:	
4 ohm version:	N/A
8 ohm version:	CX6-140FX4-361B
16 ohm version:	N/A
Recone kits:	
:	RCCX-140FX4-361B-C
:	RCCX-140FX4-361B-D

Frequency response & Impedance

10.3 mm / N/A



Frequency response measured on IAC baffle

2D drawing

