6" | 6FHM

Mid-woofer

REDCATT

Key features:

- 3 LAYER CONE, CONSISTING HI-END 1K CARBON FIBER ON NOMEX HONEYCOMB CORE
- FEM OPTIMIZED MOTOR STRUCTURE
- LOW HARMONIC DISTORTION

Design notes:

The 6FHM is a high efficiency, (89 dB 1watt / 1 meter) 6-inch mid-woofer with incredibly linear frequency response characteristics and ultra low harmonic distortion artifacts. The 6FHM uses a lightweight 1k carbon fiber material, assembled on both sides of Nomex honey-comb core. This unique cone provides the ideal weight to strength ratio. The rubber surround has been FEM modeled and optimized. The honeycomb cone with high-end 1k carbon fiber material provides remarkable strength, while pushing the cone break-up modes to high frequencies, significantly extending the working range of the speaker.

The cone
The 6FHM cone is made using 1k carbon fiber honey-comb, placed from both sides of Nomex core, while the dustcap is made off hard-anodization reinforced aluminum. The dustcap shape and the hard anodizing are further improving the mid to high frequency behavior.

Specifications:

General specs	
Nominal Diameter:	6"
Rated Impedance:	8 ohm

Power handling	
AES Power:	40 watts
Program Power:	80 watts
Peak Power:	160 watts

Voice Coil	
Diameter:	1.3 in.
Winding wire:	CCAR
Former:	Kapton
Winding height:	14.5 mm

T/S Parameters	
Resonant frequency:	36 Hz
Re:	6.9 ohm
Qes:	0.29
Qms:	12.7
Qts:	0.29
Vas:	26.1 liters
Sd:	132.7 cm2
Sensitivity:	89 dB
Mms:	18.1 grams
Bl:	9.89
Le:	0.26 mH

Design details	
Surround Material:	Rubber
Cone material:	CF Honey-
Spider:	Nomex
Plate thickness:	6 mm
Peak to peak linear cone displacement	8.8 mm
Overall diameter:	181.5 mm
Bolt circle diameter:	169.5 mm
Baffle cutout dia.:	151 mm
Number of mounting holes:	6
Depth (flange to rear):	81.7 mm
Net weight:	2.4kg

Ordering codes:

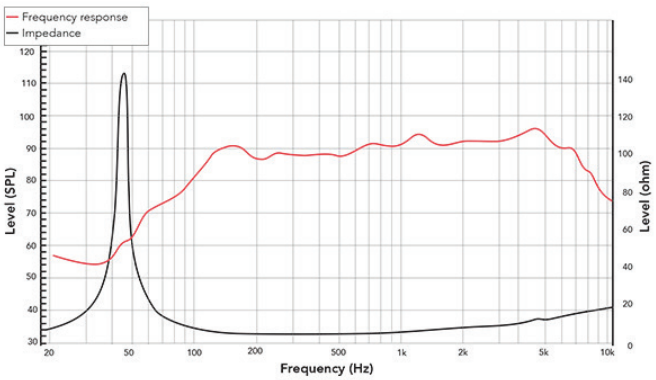
6FHM-X8 ohm-152C

Recone kits:

RC6FHMX-152C

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