

**6"****6FHM**

# Ferrite Mid-Woofer



## Key features:

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

## Design notes:

The 6FHM is a high efficiency, (91 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.

ing are further improving the mid to high frequency behavior.

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 anodiz-

## 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 cm<sup>2</sup>  
Sensitivity: 89.01 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: 4.3 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:

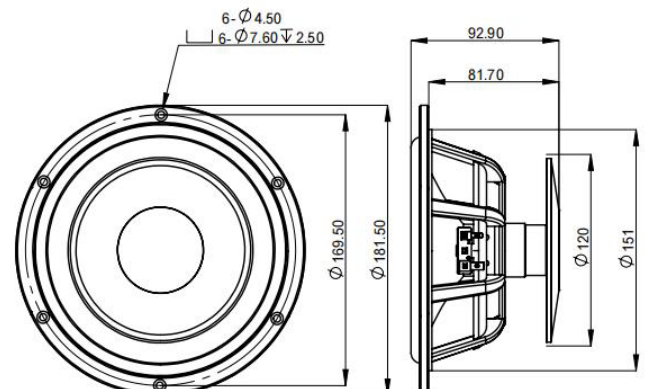
6FHMx8-152C

### 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

## 2D drawing



Frequency response measured on IAC baffle