6" 6FHM

Mid-Woofer

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:	**33 mm**
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:	**89.01 dB**
Mms:	**18.1 grams**
Bl:	**9.89**
Le:	**0.26 mH**

Design details	
Surround Material:	**NBR**
Cone material:	**Composite**
Spider:	**Nomex**
Plate thickness:	**6 mm**
Overall diameter:	**181.5 mm**
Bolt circle diameter:	**169.5 mm**
Baffle cutout dia.:	**151 mm**
Mounting holes:	**6**
Depth:	**81.7 mm**
Net weight:	**2.4 kg**

Ordering codes:

DR-6-007-8R-B2-C0001

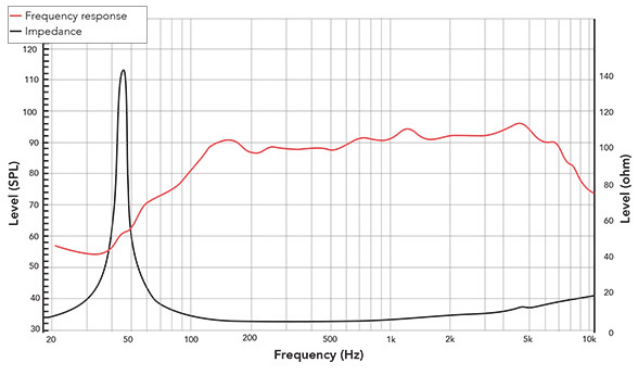
Legacy code: **6FHMX8-152C**

Recone kits:

RC6FHMX8-152C

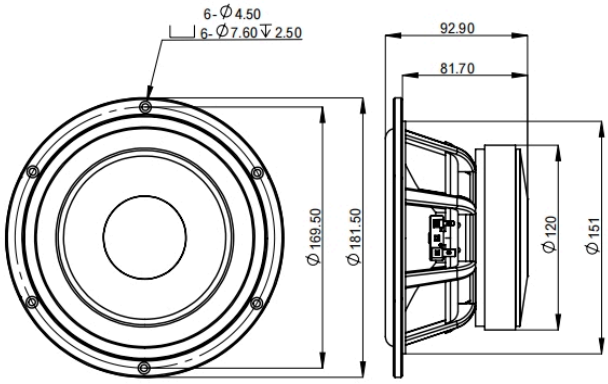
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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