

8"**82FHM****Mid-woofer****REDCATT** **Key features:**

- EXTENDED FREQUENCY RESPONSE
- HARD ANODIZED ALUMINUM CONE WITH RUBBER SURROUND
- ALUMINUM BASKET

Design notes:

82FHM is mid-woofer driver, designed for hi-fi, studio monitors and outdoor applications. Design sports hard-anodized aluminum cone and dustcap. These two key components extend the working range of the woofer. The parameters were optimized for usage in sealed enclosures.

All metal parts are coated to further increase weatherized protection, surround has UV stabilizers.

Strong aluminum basket was used

in this design which further improves the mechanical fatigue and allow the speaker to be used in demanding portable products.

Further more, we have developed new magnetic circuit for this model. Our clever engineering takes the best balance between the performance and cost. Rest assure we have FEM optimized air-venting of this design that minimizes the air-noise and greatly improves voice coil winding venting.

Specifications:**General specs**

Nominal Diameter: 8"

Rated Impedance: 8 ohm

Power handling

AES Power: 60 watts

Program Power: 120 watts

Peak Power: 240 watts

Voice Coil

Diameter: 1.5 in.

Winding wire: Copper

Former: Aluminum

Winding height: 15.9 mm

T/S Parameters

Resonant frequency: 42 Hz

Re: 5.7 ohm

Qes: 0.76

Qms: 3.1

Qts: 0.61

Vas: 33.6 liters

Sd: 213.8 cm²

Sensitivity: 88 dB

Mms: 28.3 grams

Bl: 7.56

Le: 0.47 mH

Design details

Surround Material: Rubber

Cone material: Aluminum

Spider: Nomex

Plate thickness: 5 mm

Peak to peak linear cone displacement: 16.8 mm

Overall diameter: 223.5 mm

Bolt circle diameter: 210 mm

Baffle cutout dia.: 189 mm

Number of mounting holes: 6

Depth (flange to rear): 87.5 mm

Net weight: 1.8kg

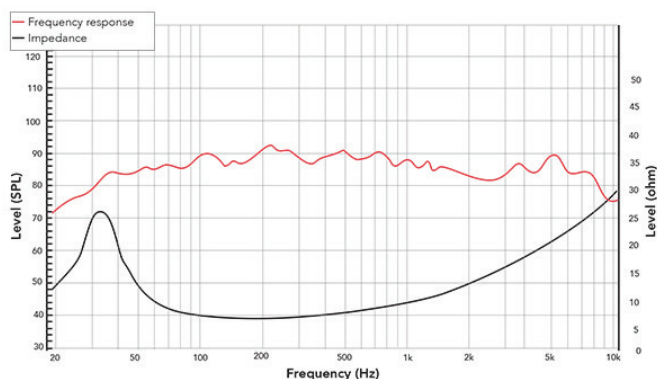
Ordering codes:

82FHM-X8 ohm-445A

Recone kits:

RC82FHM-X-445A

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