

15" | 15FPM

Ferrite Mid-Woofer



Key features:

- CARBON FIBER REINFORCED PAPER CONE
- SQUARE ALUMINUM WINDING WIRE (ALR)
- GREAT OPTION FOR POWERFUL 2-WAY SYSTEMS

Design notes:

The 15FPM is a high efficiency, (98 dB 1watt / 1 meter) 15-inch woofer with incredibly linear frequency response characteristics. The 15FPM uses a light-weight, but strong, carbon fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. Cone material was specifically developed with 2-way or multi-way application in mind. The 15FPM has extended mid frequency range, providing possibility for cross overs

at higher frequencies.

Power Handling
At the core of the 15FPM is it,Â’s voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 250~∞C, well beyond the thermal requirements of modern professional audio systems. The coil is wound on the outside of the former. Winding material is aluminum ribbon, ma-

terial that provides ideal transient response.

REDCATT has implemented a silicone spider design to ensure long term Fs memory, consistency and diminish anomalies associated with spider deterioration. The sealed spider works as a air pump and pushes the air trough out motor to increase heat transfer and cooling of the parts.

Specifications:

General specs

Nominal Diameter: 15"
Rated Impedance: 8 ohm

Power handling

AES Power: 1000 watts
Program Power: 2000 watts
Peak Power: 4000 watts

Voice Coil

Diameter: 4 in.
Winding wire: Aluminum Sq.
Former: Glass Fiber
Winding height: 21 mm

T/S Parameters

Resonant frequency: 41 Hz
Re: 5.2 ohm
Qes: 0.38
Qms: 8.07
Qts: 0.36
Vas: 134.9 liters
Sd: 908 cm2
Sensitivity: 97.87 dB
Mms: 126.6 grams
Bl: 21.3
Le: 1.17 mH

Design details

Surround Material: Fabric
Cone material: Paper
Spider: Nomex
Plate thickness: 12 mm
Peak to peak linear cone displacement: 7.7 mm
Overall diameter: 392 mm
Bolt circle diameter: 373 mm
Baffle cutout dia.: 360 mm
Number of mounting holes: 8
Depth (flange to rear): 150 mm
Net weight: 12kg

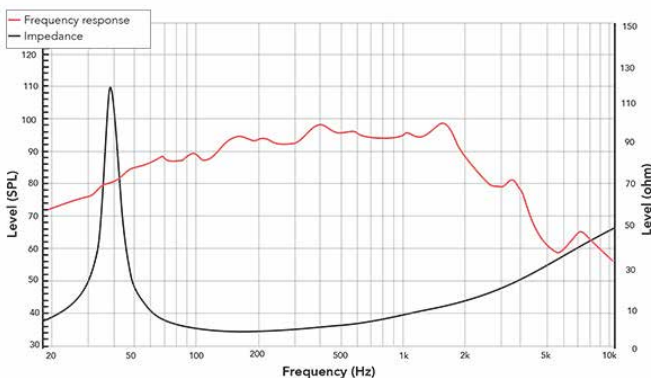
Ordering codes:

15FPMX8-063

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



Frequency response measured on IAC baffle

2D drawing

