

# 15" | 15FPM

## 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 1 watt / 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, the 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 cm<sup>2</sup>  
Sensitivity: 98 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: 15.4 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:

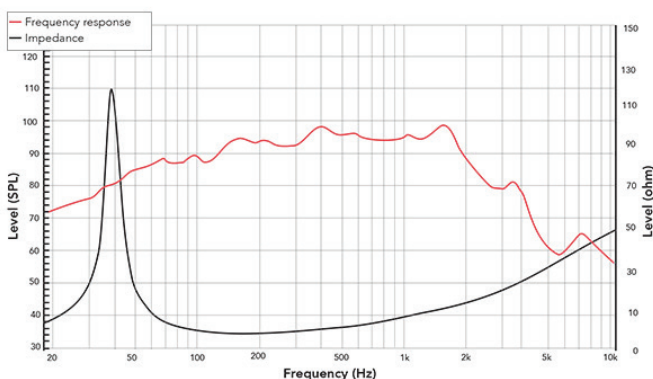
15FPM-X8 ohm-063

#### Recone kits:

RC15FPMX-063

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

