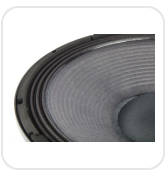


Code: DR-15-018-8R-B2-C0001

Mid-Woofer/15inch/Ferrite/Paper/1000W/8ohm

KEY FEATURES

- Carbon fiber reinforced paper cone
- Square Aluminum winding wire (ALR)
- Great option for powerful 2-way systems

QUICK SPECS

Impedance 8 Ω	Program Power 2000 W
Sensitivity 97.87 dB	Fs 41.00 Hz
Magnet Ferrite	Voice Coil 101.6 mm

2D Drawing | 3D Model (STEP)

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 lightweight, 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’s voice coil technology featuring a composite Polyimide

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 spi

Specifications

GENERAL SPECS

Nominal Diameter	15"
Rated Impedance	8 Ohm
Magnet	Ferrite
Basket Material	Aluminum

POWER HANDLING

AES Power	1000 W
Continuous Power	2000 W
Peak Power	4000 W

VOICE COIL

Diameter	101.6 mm
Former	Glass Fiber
Winding Height	21 mm

Resonant Frequency (Fs)	41.00 Hz
Re	5.20 \u2126
Qes	0.380
Qms	8.07
Qts	0.360
Vas	134.90 liters
Sd	908.00 cm\u00B2
Mms	126.60 grams
Rms	4.04
Cms	0.1200
Bl	21.30 T\u00B7m
Le	1.170 mH
Sensitivity	97.87 dB

Surround Material	Fabric
Cone/Dome Material	Paper CF
Spider	Nomex
T-Plate	12 mm
Xmax (peak)	4.5 mm
Xmech	16.5 mm
Overall Diameter	392.00 mm
Bolt Circle Diameter	373.00 mm
Baffle Cutout Dia.	360.00 mm
Mounting Holes	8
Depth (flange to rear)	150.00 mm
Net Weight	12.00 kg

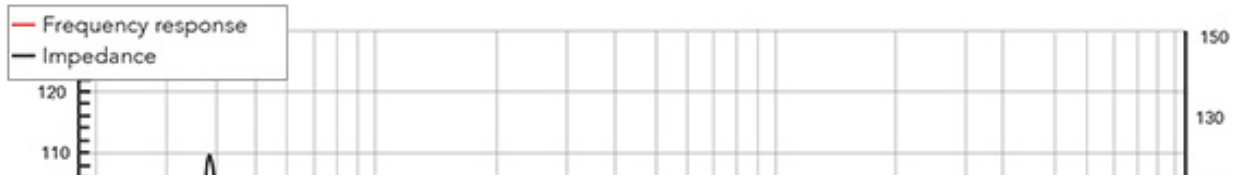
ORDERING CODES

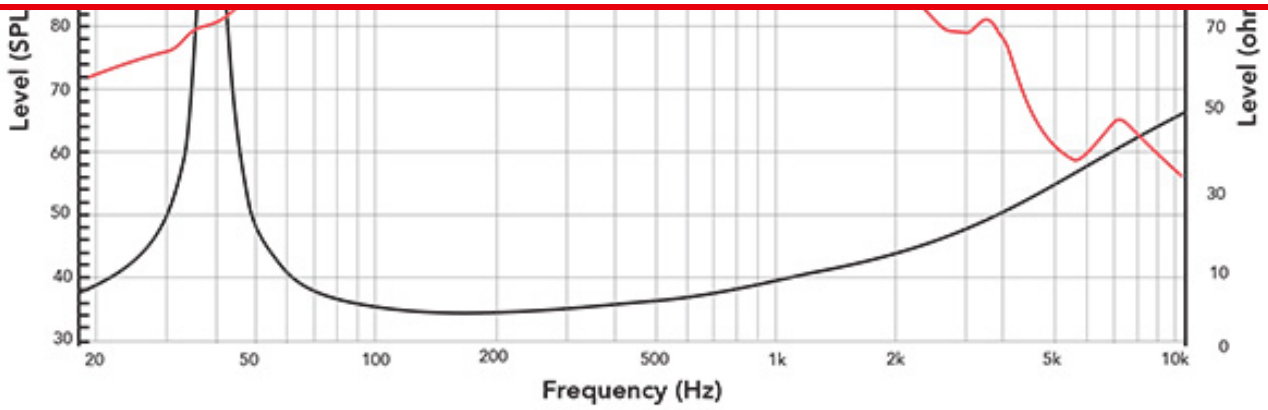
Product Code	DR-15-018-8R-B2-C0001

DOWNLOADS

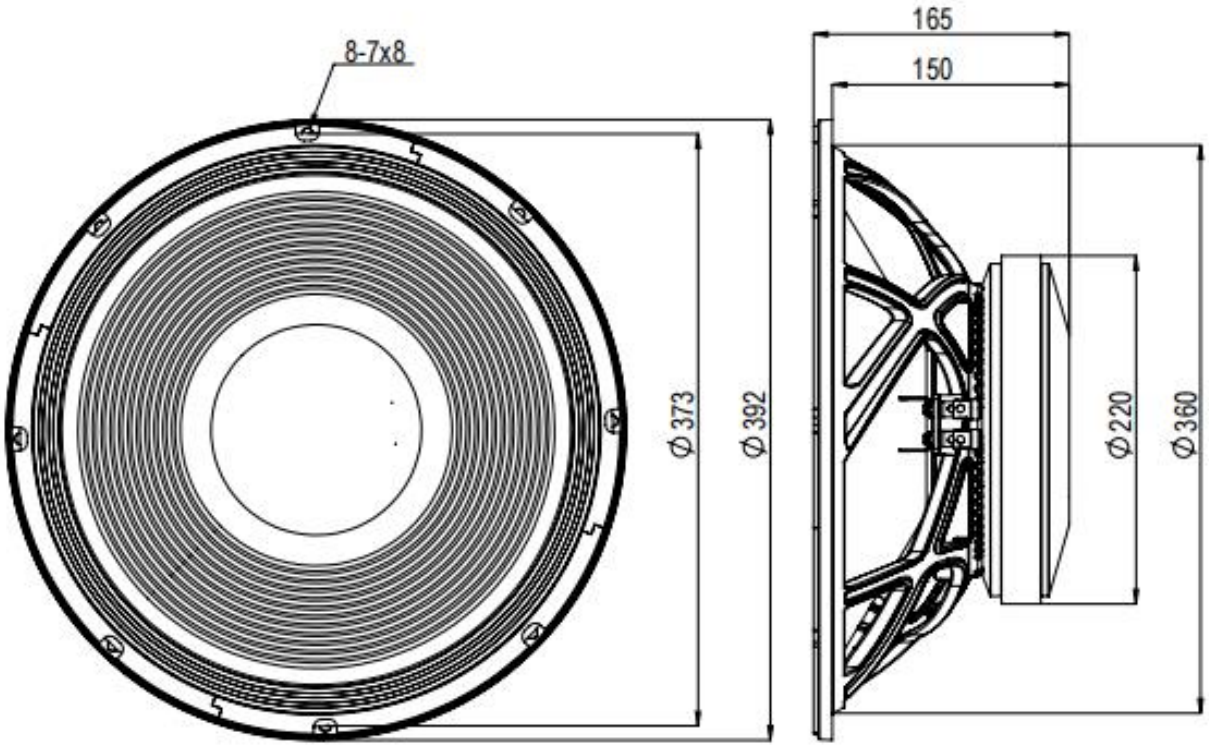
2D Drawing (PDF) 3D Model (STEP)

Frequency Response & Impedance





2D Drawing



Technical Summary

design optimized to maintain consistent performance at high drive levels with controlled excursion and reduced thermal compression. The 101.6 mm (4-inch) voice coil uses aluminum ribbon wire (ALR) wound on a glass fiber former with Polyimide insulation (250 degC rated), providing a low-mass, high-conductivity winding that delivers excellent transient response and thermal headroom for 2,000 W continuous operation. The carbon fiber loaded paper cone extends the pistonic operating range into the midrange, enabling crossover integration with compression drivers at 1-2 kHz and making the 15FPM the preferred mid-woofer choice for powerful 2-way and multi-way PA systems.

The driver is rated for approximately 1,000 W AES (2,000 W continuous) and requires high-power professional amplification. A high-pass filter in the 32-42 Hz range (24 dB/octave Linkwitz-Riley) is recommended depending on enclosure tuning. The extended midrange response supports crossover to a compression driver in the 1-2 kHz range, with a 24 dB/octave Linkwitz-Riley crossover at 1-1.5 kHz recommended. DSP alignment and peak limiting are required for sustained high-power professional applications.

The 15FPMX8-063 is particularly effective in 2-way and 3-way touring PA top cabinets, powered monitor systems, and high-power bass reflex enclosures where a 15-inch mid-woofer with extended midrange response, very high sensitivity, and aluminum ribbon voice coil technology is required. Good to use with 1.4-inch or 1.8-inch compression drivers such as 140FCDX8-087, 140NCDX8-077, 180FCDPX8-330, or 180FCDX8-044 in 2-way high-power PA top cabinets.

Recommended enclosure volumes are simulated results. For best enclosure volumes and tuning, we recommend secondary simulation and careful evaluation. Several rounds of samples and fine-tuning may be required for optimal results.

Enclosure Recommendations

Recommended enclosure alignments (bass reflex):
- 105 liters tuned to 47 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 43 Hz, HP filter 39 Hz
- 120 liters tuned to 41 Hz: balanced response, general-purpose (recommended); -3 dB

Frequently Asked Questions

What are the key features of the 15FPM?

What enclosure is recommended for the 15FPM?

What applications is the 15FPM suited for?

What are the power and sensitivity specs of the 15FPM?

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