



Code: DR-15-017-8R-B2-C0001

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

KEY FEATURES

- ✓ Glass fiber and rib reinforced paper cone
- ✓ fem optimized air circulation
- ✓ Silicone sealed surround

QUICK SPECS

Impedance
8 Ω

Program Power
2000 W

Sensitivity
96.65 dB

Fs
42.00 Hz

Magnet
Ferrite

Voice Coil
101.6 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 15FIND is a high efficiency, (97 dB 1watt / 1 meter) 15-inch woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts. The 15FIND uses a lightweight, but strong, glass fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. This combination provides remarkable strength, high efficiency and a peak to peak maximum excursion of 21mm.

Power Handling

At the core of the 15FIND is it's voice coil technology featuring a composite Polyimide

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

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
Winding Wire	Copper
Former	Glass Fiber
Winding Height	25.5 mm

Resonant Frequency (Hz)	42.00 Hz
Re	5.40 $\times 10^{-2}$
Qes	0.370
Qms	8.31
Qts	0.360
Vas	96.40 liters
Sd	881.00 cm ²
Mms	159.60 grams
Rms	5.10
Cms	0.0900
Bl	24.60 Tm
Le	1.180 mH
Sensitivity	96.65 dB

Construction Material

Cone/Dome Material	Paper GF
Spider	Nomex
T-Plate	12 mm
Xmax (peak)	6.75 mm
Xmech	18.75 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

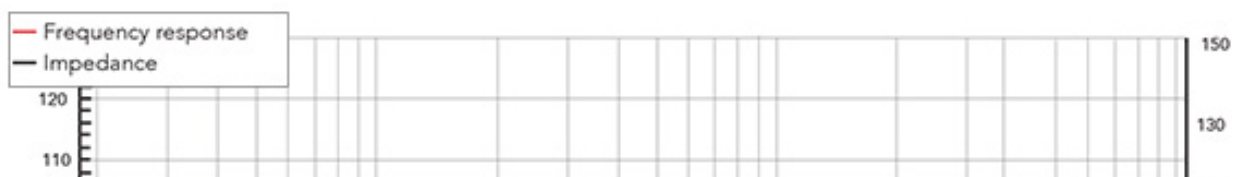
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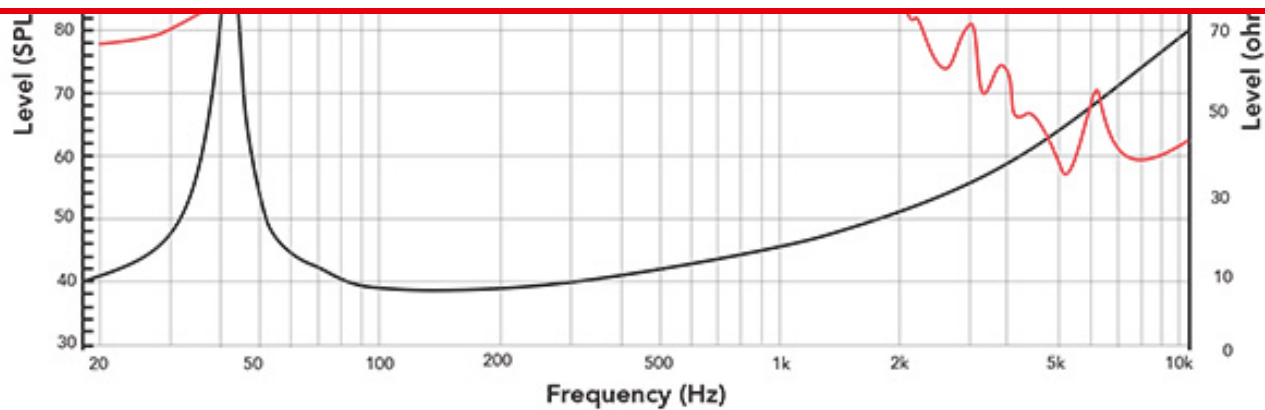
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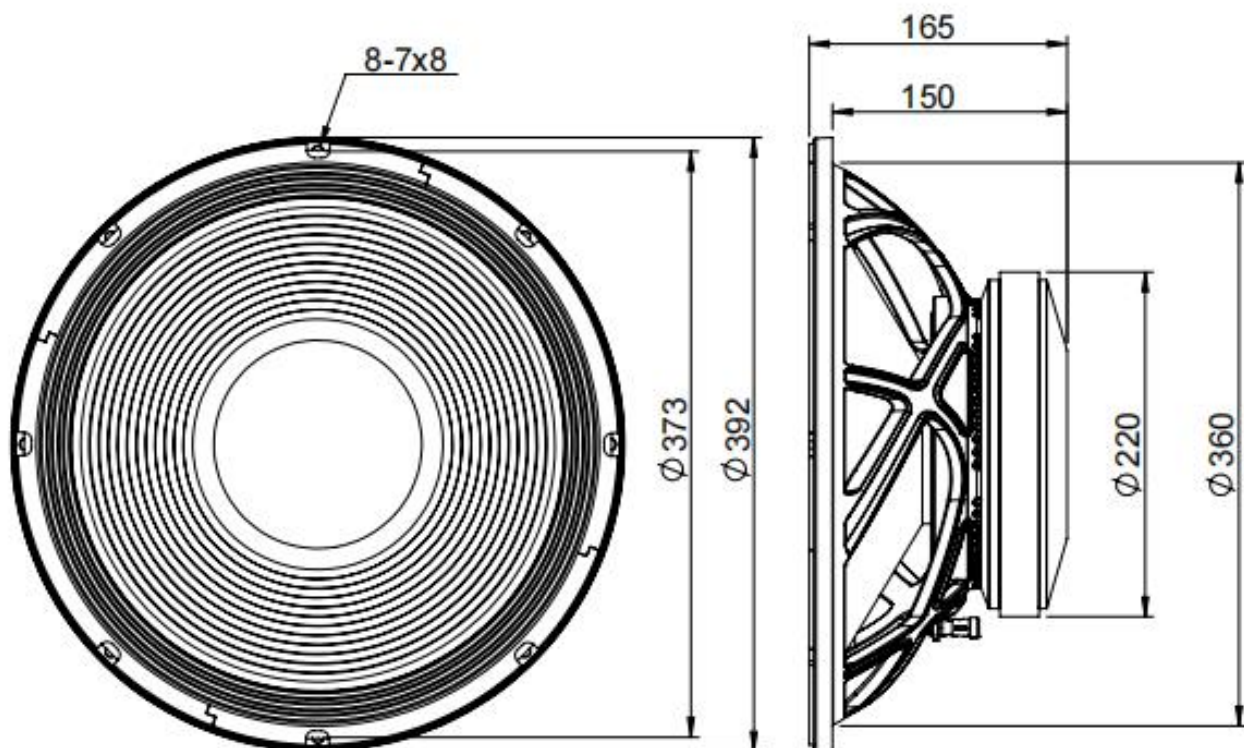
 2D Drawing (PDF)  3D Model (STEP)

Frequency Response & Impedance





2D Drawing



Technical Summary

design optimized to maintain consistent performance at high drive levels, with controlled excursion and reduced thermal compression during long-term operation. The 101.6 mm (4-inch) voice coil on a glass fiber former with copper windings and Polyimide insulation (250 degC rated) provides the thermal headroom required for sustained high-power operation. A silicone-treated Nomex spider ensures long-term resonant frequency stability and mechanical consistency under high-excursion cycling. The glass fiber loaded paper cone and fabric triple-roll constant geometry surround deliver robust mechanical performance throughout the rated Xmax of 6.75 mm (one-way linear).

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 33-42 Hz range (24 dB/octave Linkwitz-Riley) is recommended depending on enclosure tuning, with excursion limiting applied below the port tuning frequency. Typical operating bandwidth is 35-200 Hz in subwoofer applications. DSP processing with peak limiting and crossover control is required for sustained high-power touring and fixed-installation use.

The 15FINDX8-035 is particularly effective in single or multi-driver bass reflex subwoofer enclosures for touring PA, fixed-installation bass systems, and high-SPL bass reproduction where high sensitivity, 1,000 W AES power handling, and the proven glass fiber cone assembly provide consistent, durable performance. The 8-ohm nominal impedance enables flexible series/parallel wiring configurations for multi-driver subwoofer arrays.

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):

- 75 liters tuned to 48 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 44 Hz, HP filter 40 Hz
- 85 liters tuned to 42 Hz: balanced response, general-purpose (recommended); -3 dB

Frequently Asked Questions

What are the key features of the 15FIND?



What enclosure is recommended for the 15FIND?



What applications is the 15FIND suited for?



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



Related Products



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152FIND-1



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152FIND-2



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