



Code: DR-12-012-8R-B2-C0001

REDCATT 121FIND 12-inch ferrite professional mid-woofer: 250 W AES, 96.6 dB sensitivity, 8 Ω , Fs 63 Hz, 50.8 mm voice coil. Full T/S parameters, datasheet, 2D drawing and STEP CAD file.

KEY FEATURES

- ✓ EXTENDED FREQUENCY RESPONSE
- ✓ Proven cost effective design
- ✓ Good power handling, nomex spider, water-repellent & non-flammable paper cone

QUICK SPECS

Impedance
8 Ω

Program Power
500 W

Sensitivity
96.60 dB

Fs
63.00 Hz

Magnet
Ferrite

Voice Coil
50.8 mm

[📄 Datasheet \(PDF\)](#)[📎 2D Drawing](#)[📦 3D Model \(STEP\)](#)

Design Notes

The 121FIND is a high efficiency, (96.5 dB 1watt/ 1 meter) 12inch woofer with incredibly linear frequency response characteristics, high power handling capability while generating low harmonic distortion artifacts. 121FIND uses lightweight cone which movement is controlled by "M" shaped surround. Pistonic behavior and the long term stability

Is supported by Nomex spider. The woofer cone is treated to withstand harsh environments and high humidity.

delivers seizable amounts of low frequencies.

The metal parts in the speaker are coated and tested to ensure extreme weatherization protection.

Specifications

GENERAL SPECS

Nominal Diameter	12"
Rated Impedance	8 Ohm
Magnet	Ferrite
Basket Material	Steel

POWER HANDLING

AES Power	250 W
Continuous Power	500 W
Peak Power	1000 W

VOICE COIL

Diameter	50.8 mm
Winding Wire	CCAW
Former	Glass Fiber
Winding Height	15.5 mm

Resonant Frequency (Hz)	55.55 Hz
Re	5.30 Ω
Qes	0.650
Qms	7.47
Qts	0.600
Vas	49.80 liters
Sd	531.00 cm ²
Mms	50.80 grams
Rms	2.69
Cms	0.1300
Bl	12.90 T·m
Le	0.520 mH
Sensitivity	96.60 dB

General Material

Cone/Dome Material	Paper GF
Spider	Nomex
T-Plate	8 mm
Xmax (peak)	3.75 mm
Xmech	11.75 mm
Overall Diameter	320.00 mm
Bolt Circle Diameter	302.00 mm
Baffle Cutout Dia.	282.00 mm
Mounting Holes	8
Depth (flange to rear)	124.00 mm
Net Weight	4.60 kg

ORDERING CODES

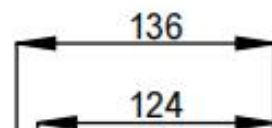
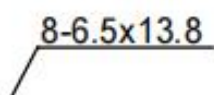
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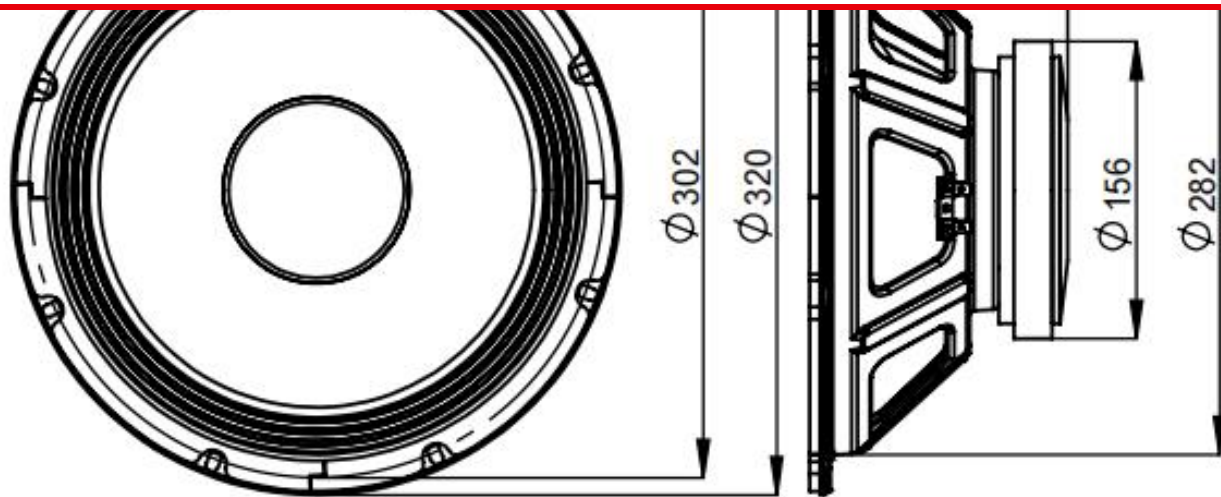
DOWNLOADS

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

Covered by the REDCATT **3-year Limited Warranty**.

2D Drawing





Technical Summary

The 121FINDX8-234 is a 12-inch ferrite pro mid-woofer designed for professional 2-way PA speaker systems, touring cabinets, and permanently installed enclosures crossed to a compression driver or horn. It shares the 121FIND platform with the 4-ohm 121FINDX4-233, featuring the same weatherized glass fiber treated paper cone, M-shaped fabric surround, non-flammable Nomex spider, and coated steel basket. The 8-ohm nominal impedance provides a standard single-driver amplifier load. Sensitivity is 96.6 dB (1W/1m). With a Qts of 0.60, this driver uses a compliant suspension design suited to moderate-volume enclosures with extended low-frequency response; sealed enclosures are the preferred alignment for this Qts value, with vented available for higher efficiency PA applications.

The 121FINDX8-234 handles approx. 250 W AES and 500 W continuous power, delivering a peak SPL of 121 dB at 1 metre (AES). A high-pass filter at 45-80 Hz is recommended depending on alignment. Operating bandwidth is approximately 70-843 Hz, with cone beaming onset near 843 Hz defining the upper limit and a required crossover to horn at 800 Hz to 1.2 kHz. The higher Le of 0.52 mH compared to the 4ohm-233 variant makes a Zobel network (5.6 ohm / 18 uF) more important to flatten impedance rise through the crossover region.

suited for sealed 2-way PA and stage monitor enclosures; vented touring PA cabinets requiring deeper bass extension; and permanently installed 2-way systems in venues where standard 8-ohm amplifier matching and increased excursion headroom are required.

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):

- 20 liters tuned to 72 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 66 Hz, HP filter 64 Hz
- 25 liters tuned to 66 Hz: balanced response, general-purpose (recommended); -3 dB approx. 61 Hz, HP filter 56 Hz
- 30 liters tuned to 60 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 51 Hz, HP filter 48 Hz

Frequently Asked Questions

What are the key features of the 121FIND?



What enclosure is recommended for the 121FIND?



What applications is the 121FIND suited for?



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