



Code: DR-15-008-8R-B2-C0001

Woofer/15inch/Ferrite/Paper/800W/8ohm

KEY FEATURES

- ✓ EXTENDED LOW FREQUENCY RESPONSE
- ✓ Lightweight carbon fiber loaded paper cone
- ✓ High spl

QUICK SPECS

Impedance
8 Ω

Sensitivity
99.03 dB

Magnet
Ferrite

Program Power
1600 W

Fs
44.00 Hz

Voice Coil
76 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 152FIND is a high efficiency, (99 dB 1watt / 1 meter) 15-inch woofer with incredibly linear frequency response characteristics, high power handling capability while generating low harmonic distortion artifacts. The 152FIND uses a lightweight carbon 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 15mm.

Power Handling

At the core of the 152FIND is it's voice coil technology featuring a composite Polyimide

REDCATT pulp. The woofer cone is also extensively treated to withstand harsh environments and high humidity. Metal parts in the speaker assembly are coated for extreme weatherization protection.

Specifications

GENERAL SPECS

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

POWER HANDLING

AES Power	800 W
Continuous Power	1600 W
Peak Power	3200 W

VOICE COIL

Diameter	76 mm
Winding Wire	CCAW
Former	Glass Fiber
Winding Height	18.9 mm

Resonant Frequency (Hz)	44.00 Hz
Re	4.80 $\times 10^{-2}$
Qes	0.380
Qms	13.00
Qts	0.370
Vas	128.50 liters
Sd	829.60 cm ²
Mms	95.60 grams
Rms	2.00
Cms	0.1400
Bl	18.30 Tm
Le	0.980 mH
Sensitivity	99.03 dB

Construction Material

Cone/Dome Material	Paper CF
Spider	Nomex
T-Plate	10 mm
Xmax (peak)	4.45 mm
Xmech	14.45 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)	137.00 mm
Net Weight	8.50 kg

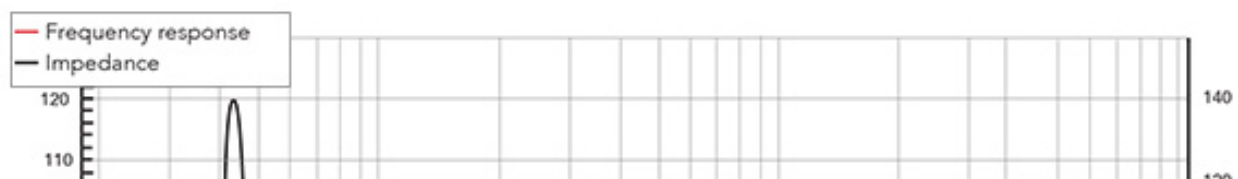
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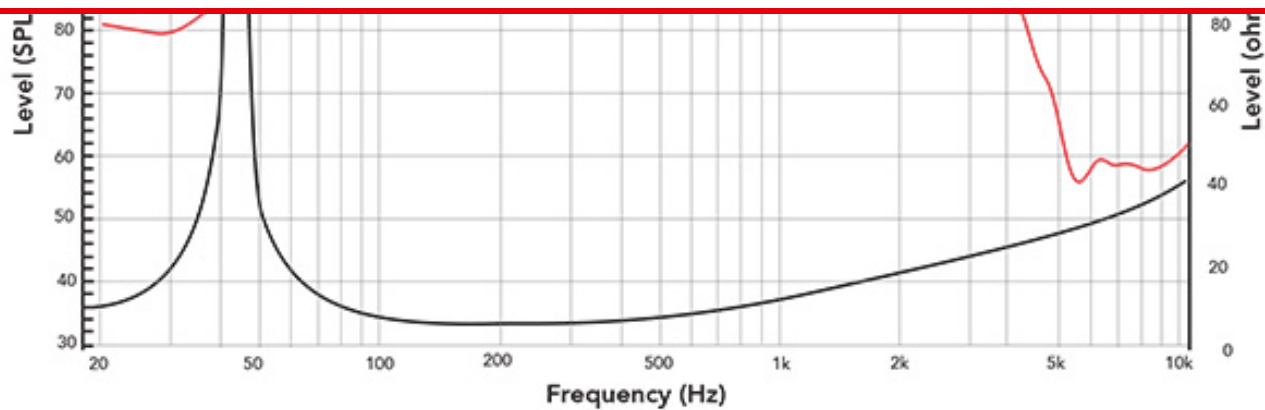
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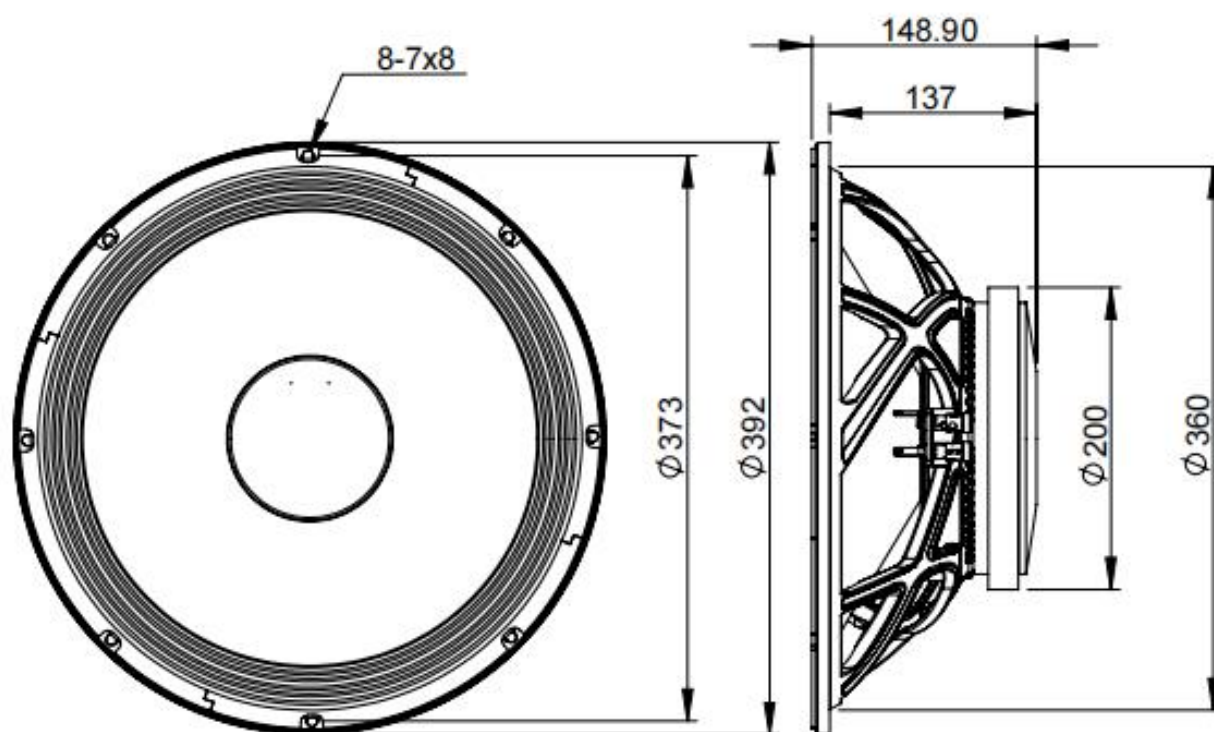
 2D Drawing (PDF)  3D Model (STEP)

Frequency Response & Impedance





2D Drawing



Technical Summary

highest-efficiency 15-inch woofer designs in the professional audio market, enabling competitive system SPL output from relatively compact enclosures and modest amplifier power. The driver uses a 76 mm (3-inch) CCAW voice coil wound on a Polyimide former rated to withstand peak temperatures in excess of 280 degC, providing sustained high-power handling without thermal compression across long-duration programme material. The Ferrite motor system delivers a BL of 18.3 T.m at a Q_{ts} of 0.37, yielding a controlled, motor-damped response optimized for vented (bass reflex) alignment. The Q_{ms} of 13.0 indicates near-lossless mechanical suspension; essentially all system damping is provided by the motor and external amplifier, with the suspension contributing minimal resistive losses - a design approach that maximizes efficiency and sensitivity. The carbon fiber loaded REDCATT paper cone is treated against humidity and environmental exposure, and metal components are coated for weatherization, making the 152FIND suitable for permanent indoor and semi-outdoor installation.

The 152FINDX8-115 requires high-power professional amplification delivering 800-1600 W into 8 ohms, with DSP signal management mandatory for all alignments. A minimum 24 dB/octave high-pass filter at 50, 40, or 35 Hz - depending on alignment - must be applied, as cone excursion rises rapidly below the vented tuning frequency where the enclosure no longer provides acoustic loading. Displacement and power limiting are recommended in all DSP presets. The recommended low-pass crossover frequency for integration with a compression driver or high-frequency section is 1.0-1.5 kHz at 24 dB/octave, providing full programme bandwidth from a single two-way system. The CCAW voice coil winding, lighter than equivalent copper, contributes to the high sensitivity figure without sacrificing the current-carrying capacity required at 800 W AES power levels.

The 152FINDX8-115 is suited for: two-way touring PA enclosures where 15-inch woofer coverage and high sensitivity are required in a compact trapezoidal format; installed main and fill speakers for theatres, houses of worship, stadia, and outdoor amphitheatres; high-SPL club and venue main systems operating at continuous programme levels; mid-bass column and line array modules in large-format installation arrays; and cinema LF speaker assemblies requiring extended bass coverage from a single enclosure. Its 99.03 dB sensitivity, 800 W AES power handling, and $Q_{ms}=13.0$

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):

- 95 liters tuned to 51 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 47 Hz, HP filter 43 Hz
- 110 liters tuned to 45 Hz: balanced response, general-purpose (recommended); -3 dB approx. 41 Hz, HP filter 35 Hz
- 135 liters tuned to 39 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 33 Hz, HP filter 27 Hz

Frequently Asked Questions

What are the key features of the 152FIND-2?



What enclosure is recommended for the 152FIND-2?



What applications is the 152FIND-2 suited for?



What are the power and sensitivity specs of the 152FIND-2?





LF 15"
152FIND-1



LF 15"
154FIND



LF 15"
155FIND



LF 15"
15FHW

High Frequency (HF)

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