



Code: DR-15-007-8R-B2-C0001

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

KEY FEATURES

- ✓ EXTENDED LOW FREQUENCY RESPONSE
- ✓ Carbon fiber reinforced cone
- ✓ High excursion rubber surround

QUICK SPECS

Impedance
8 Ω

Sensitivity
95.62 dB

Magnet
Ferrite

Program Power
1600 W

Fs
37.00 Hz

Voice Coil
76 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 152FIND-333 is a high efficiency, (96 dB 1watt / 1 meter) 15-inch woofer with linear frequency response characteristics and high power handling capability. The 152FIND-333 uses a lightweight carbon fiber loaded cone assembly along with a high excursion rubber surround. This combination greatly improves low-frequency response and provides great level of control over the moving cone at high excursion levels. We have designed a lightweight surround, using our own rubber compound. As the result, the SPL is not compromised and the woofer can be used in professional audio applications, where high amounts of low frequencies are required.

280C, well beyond the thermal requirements of modern professional audio systems. The 152FIND-333 cone is 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	19 mm

Resonant Frequency (Hz)	87.55 Hz
Re	4.60 $\times 10^{-2}$
Qes	0.460
Qms	10.20
Qts	0.440
Vas	119.00 liters
Sd	804.00 cm ²
Mms	140.00 grams
Rms	3.19
Cms	0.1300
Bl	18.40 Tm
Le	0.550 mH
Sensitivity	95.62 dB

Construction Material

Value

Cone/Dome Material	Paper CF
Spider	Nomex
T-Plate	10 mm
Xmax (peak)	4.5 mm
Xmech	14.5 mm
Overall Diameter	392.00 mm
Bolt Circle Diameter	375.00 mm
Baffle Cutout Dia.	360.00 mm
Mounting Holes	8
Depth (flange to rear)	143.00 mm
Net Weight	9.00 kg

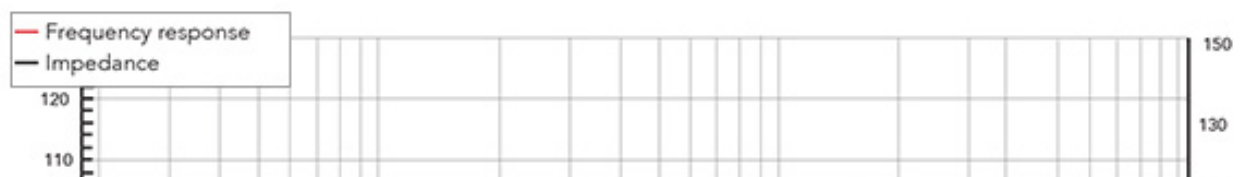
ORDERING CODES

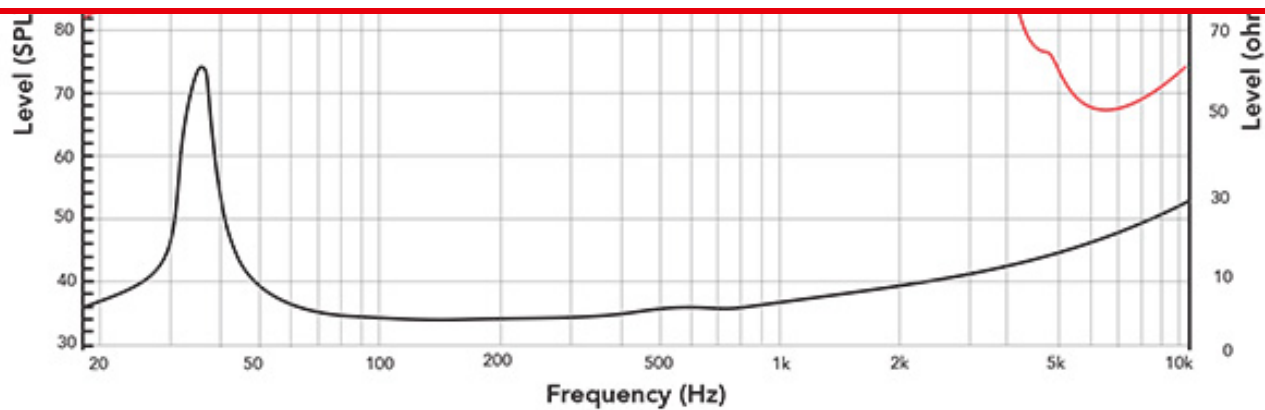
Product Code	DR-15-007-8R-B2-C0001
--------------	-----------------------

DOWNLOADS

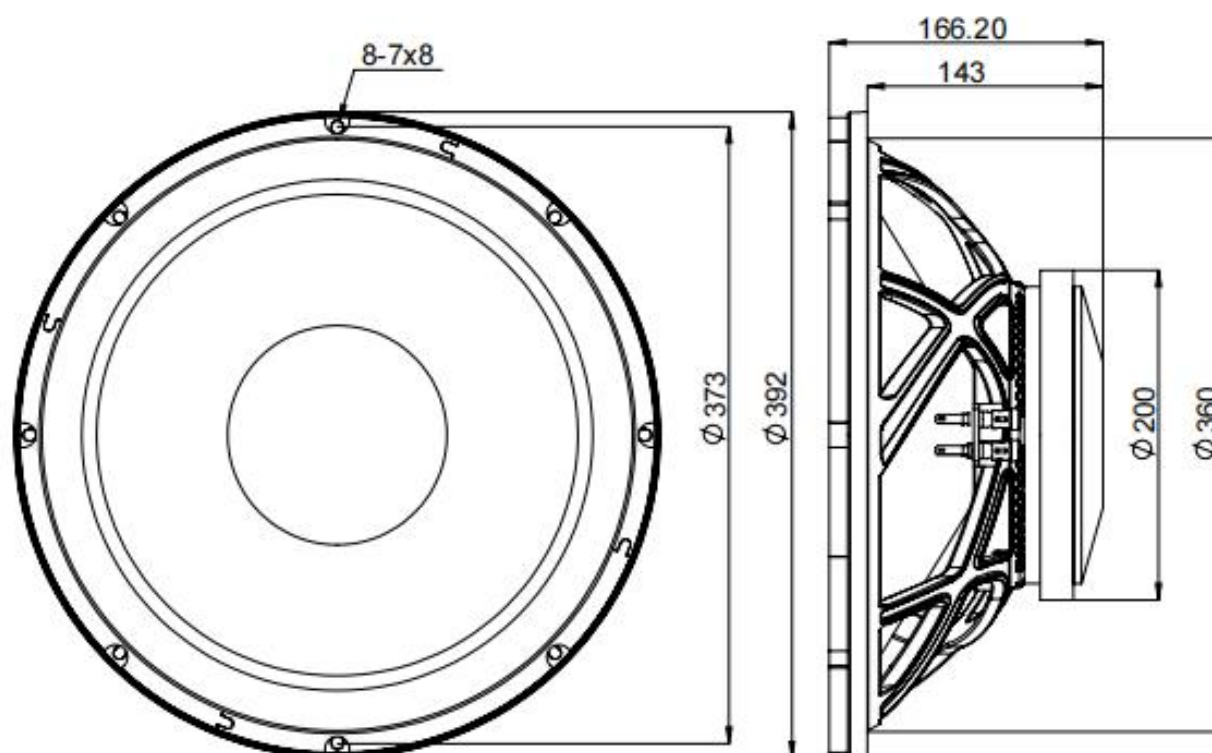
 2D Drawing (PDF)
  3D Model (STEP)

Frequency Response & Impedance





2D Drawing



Technical Summary

76 mm (3-inch) CCAW voice coil wound on a Polyimide former rated to 280 degC, delivering 800 W AES and 1600 W continuous power handling at 8 ohms. With a Ferrite motor producing a BI of 18.4 T.m and a deliberately elevated moving mass of 140 g, the -333 is tuned to a lower resonant frequency of 37 Hz compared to other drivers in the 152FIND platform - a design choice that prioritizes bass extension and displacement control over peak sensitivity. The result is a measured sensitivity of 95.62 dB (1 W/1 m), 3.4 dB below the higher-sensitivity -115 variant, with the trade-off being usable -3 dB output approximately 17 Hz lower. The voice coil inductance of $L_e=0.55$ mH is significantly lower than competing 15-inch PA woofers of similar power class, reducing high-frequency inductance modulation distortion and preserving upper midrange clarity across the 50 Hz-1 kHz operating band at high displacement. The NBR rubber surround, produced from a REDCATT proprietary rubber compound, provides superior fatigue resistance, UV stability, ozone resistance, and compliance consistency compared to fabric surrounds under sustained high-excursion programme conditions, making the -333 the preferred choice for permanently installed outdoor systems and touring applications requiring extended service intervals.

The 152FINDX8-333 requires high-power professional amplification of 800-1600 W into 8 ohms, with DSP management mandatory including a 24 dB/octave high-pass filter at 45, 38, or 33 Hz depending on alignment. Below the tuning frequency, enclosure acoustic loading is removed and cone excursion rises rapidly; the Xprot of 20 mm provides a generous mechanical safety margin, but displacement-limiting in DSP is still essential at full programme power. The recommended operating bandwidth extends from approximately 40 Hz to 1.0-1.5 kHz; a 24 dB/octave low-pass crossover to a compression driver or high-frequency section at this frequency is standard for two-way system integration.

The 152FINDX8-333 is suited for: two-way touring PA enclosures requiring extended low-frequency performance and high mechanical durability from a 15-inch driver; permanently installed outdoor main speakers for amphitheatres, sports venues, festival sites, and theme parks where NBR rubber surround longevity is a primary service-life consideration; installed main speakers for theatres, houses of worship, and stadia where sub-bass coverage from the main enclosure is desirable; high-SPL club and venue

rubber surround, and Polyimide former makes the -333 the acoustically deeper, mechanically more durable, and environmentally more robust variant within the 152FIND product platform.

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 43 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 40 Hz, HP filter 35 Hz
- 85 liters tuned to 39 Hz: balanced response, general-purpose (recommended); -3 dB approx. 36 Hz, HP filter 29 Hz
- 100 liters tuned to 35 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 30 Hz, HP filter 23 Hz

Frequently Asked Questions

What are the key features of the 152FIND-1?



What enclosure is recommended for the 152FIND-1?



What applications is the 152FIND-1 suited for?



Related Products



LF 15"
152FIND-2



LF 15"
154FIND



LF 15"
155FIND



LF 15"
15FHW



Engineering-driven loudspeaker manufacturer. High-performance audio transducers for professional audio, OEM, and custom applications.

PRODUCTS

[Low Frequency \(LF\)](#)

[High Frequency \(HF\)](#)

[Coaxial](#)

[All Products](#)

COMPANY

[About](#)

[Technology](#)

[Quality](#)

[Contact](#)

CONTACT

 info@redcatt.net

 (+86) 769 8318 1898

 Dongguan, China