

Code: DR-18-014-8R-B2-C0001

Woofer/18inch/Ferrite/Paper/1000W/8ohm

KEY FEATURES

- ✓ EXTENDED FREQUENCY RESPONSE
- ✓ Optimized venting system
- ✓ High power handling

QUICK SPECS

Impedance	Program Power
8 Ω	2000 W
Sensitivity	Fs
97.24 dB	36.00 Hz
Magnet	Voice Coil
Ferrite	101.6 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 18FIND is a high efficiency, (97 dB 1watt / 1 meter) 18-inch woofer with incredibly linear frequency response characteristics, high power handling capability while generating low harmonic distortion artifacts. The 18FIND uses a lightweight 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 18FIND is it's voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 250C, well beyond the thermal requirements of modern professional audio systems.

REDCATT has implemented a silicone spider design to ensure long term shape memory, consistency and diminish anomalies associated with spider deterioration.

GENERAL SPECS

Nominal Diameter	18"
Rated Impedance	8 Ohm
Magnet	Ferrite
Basket Material	Aluminum

VOICE COIL

Diameter	101.6 mm
Winding Wire	Copper
Former	Glass Fiber
Winding Height	23.7 mm

POWER HANDLING

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

T/S PARAMETERS

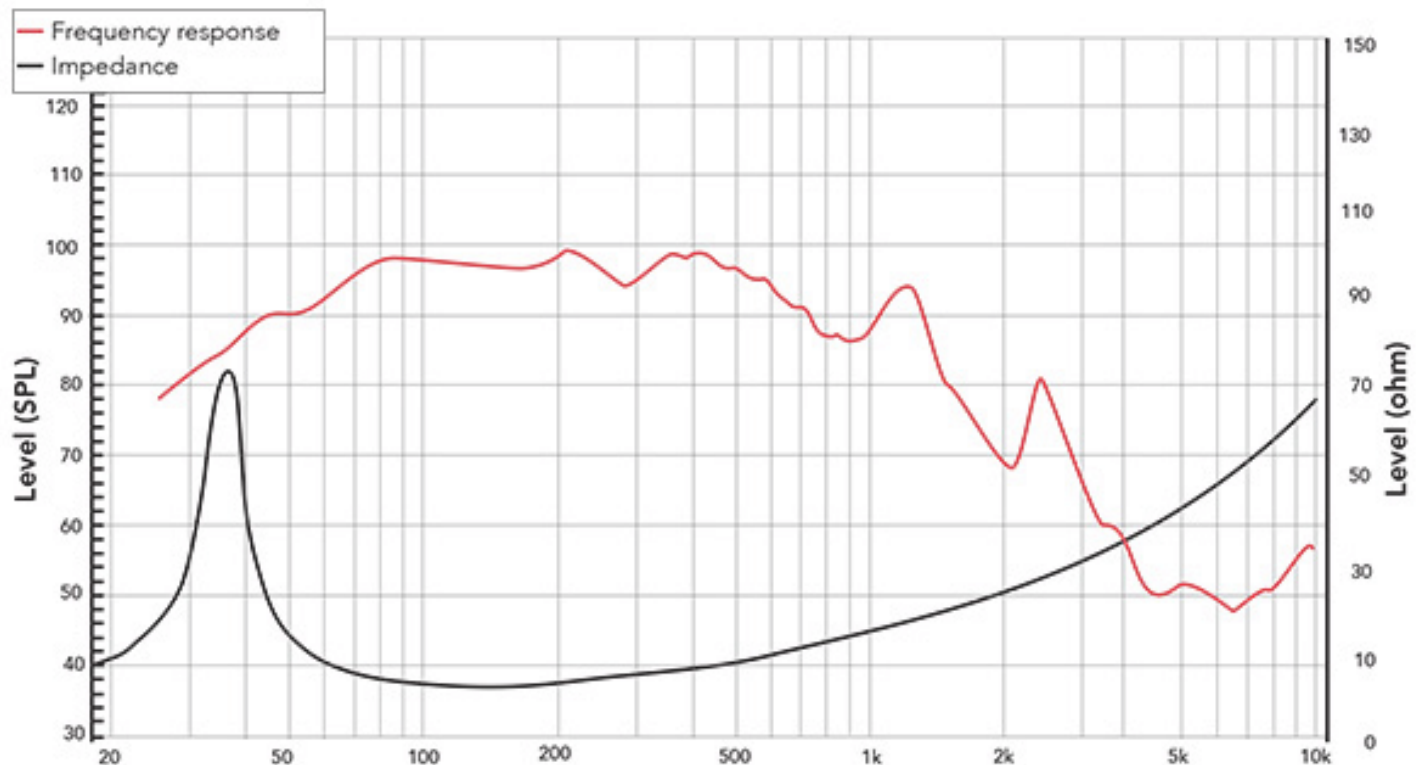
Resonant Frequency (Fs)	36.00 Hz
Re	5.20 \u00a9
Qes	0.440
Qms	8.40
Qts	0.420
Vas	203.40 liters
Sd	1257.00 cm\u00b2
Mms	211.80 grams
Rms	5.70
Cms	0.0900
Bl	23.60 T\u00b7m
Le	1.740 mH
Sensitivity	97.24 dB

Cone/Dome Material	Paper CF
Spider	Nomex
T-Plate	12 mm
Xmax (peak)	5.85 mm
Xmech	17.85 mm
Overall Diameter	468.00 mm
Bolt Circle Diameter	442.00 mm
Baffle Cutout Dia.	426.00 mm
Mounting Holes	8
Depth (flange to rear)	184.00 mm
Net Weight	13.70 kg

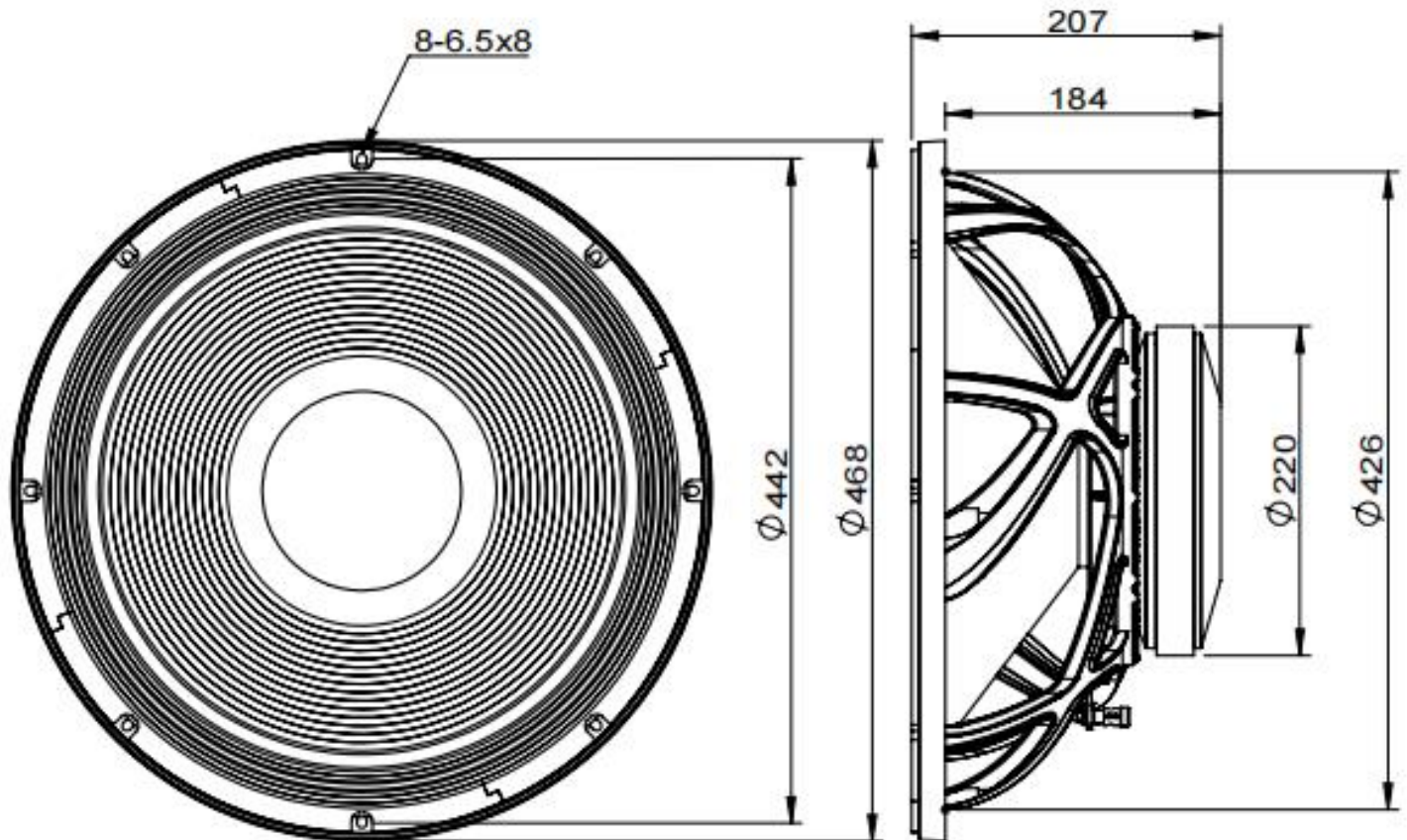
DOWNLOADS

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

Frequency Response & Impedance



2D Drawing



Technical Summary

The 18FINDX8-036 is an 18-inch high-efficiency professional woofer rated at 1,000 W AES (2,000 W continuous) into a nominal 8-ohm load. Sensitivity is 97.24 dB (1 W/1 m), placing it among the highest-efficiency 18-inch drivers in the REDCATT range. The Qts of 0.42 reflects a balanced motor-suspension design that provides good cone control while maintaining usable output across its operating bandwidth, with vented enclosures strongly preferred for PA subwoofer applications. The 101.6 mm (4-inch) voice coil on a glass fiber former with copper windings and Polyimide insulation (250 degC rated) delivers the thermal headroom required for sustained 2,000 W continuous operation. The carbon fiber loaded paper cone and fabric triple-roll constant geometry surround ensure high mechanical stability throughout the rated Xmax of 5.85 mm (one-way linear). An optimized motor venting system provides effective thermal management during extended high-power use.

The driver is rated for approximately 1,000 W AES (2,000 W continuous) and requires high-power

DSP crossover management, peak limiting, and thermal protection are required for sustained high-power touring and installation use.

The 18FINDX8-036 is suited for touring PA subwoofers, fixed-installation bass cabinets, high-SPL single and multi-driver bass reflex enclosures, and outdoor sound systems requiring weather-resistant construction. The aluminum basket, silicone spider treatment, and optimized venting system provide long-term mechanical reliability under continuous professional use. The 8-ohm nominal impedance enables flexible 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):

- 130 liters tuned to 41 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 38 Hz, HP filter 33 Hz
- 155 liters tuned to 38 Hz: balanced response, general-purpose (recommended); -3 dB approx. 35 Hz, HP filter 28 Hz
- 180 liters tuned to 34 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 29 Hz, HP filter 22 Hz

Frequently Asked Questions

What are the key features of the 18FIND?



What enclosure is recommended for the 18FIND?



What applications is the 18FIND suited for?



What are the power and sensitivity specs of the 18FIND?





LF 18"
18XR



LF 18"
183FIND



LF 18"
186FIND



LF 18"
182FIND

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