



Code: DR-18-003-8R-B2-C0001

Variant of DR-18-003

KEY FEATURES

- ✓ Optimized ferrite magnetic structure
- ✓ Lightweight, yet strong paper cone
- ✓ Hi spl

QUICK SPECS

Impedance
8 Ω

Program Power
1200 W

Sensitivity
97.07 dB

Fs
32.00 Hz

Magnet
Ferrite

Voice Coil
76 mm

 2D Drawing

 3D Model (STEP)

Design Notes

183FIND is a cost-effective solution for subwoofers. Its lightweight yet strong cone allows the magnetic circuit to be size optimized while delivering a seizable amount of sound pressure. With its high efficiency (97 dB 1watt / 1 meter) and high power handling capabilities, this woofer will excel in all applications with tight budgets. The cone shape and material was developed to provide an optimum low-frequency response, making the woofer good choice for subwoofer systems.

Power Handling

At the core of the 183FIND is its voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures above 280°C. The winding with high-temperature specification copper wire ensures the long life of the voice coil, without the costly service cycles.

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

GENERAL SPECS

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

VOICE COIL

Diameter	76 mm
Winding Wire	Copper
Former	Glass Fiber
Winding Height	19.8 mm

POWER HANDLING

AES Power	600 W
Continuous Power	1200 W
Peak Power	2400 W

T/S PARAMETERS

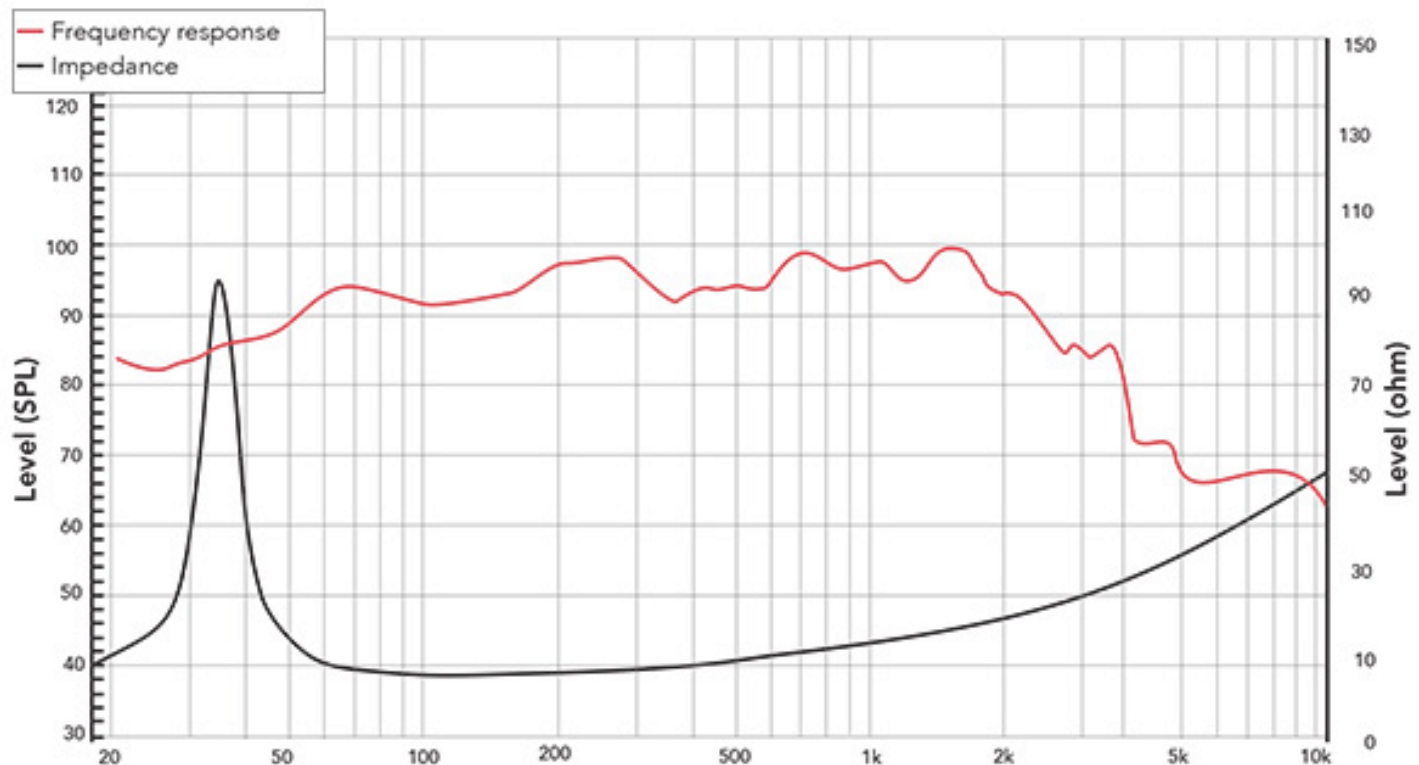
Resonant Frequency (Fs)	32.00 Hz
Re	5.90 \u00d7126
Qes	0.430
Qms	13.20
Qts	0.420
Vas	329.50 liters
Sd	1225.40 cm\u00B2
Mms	165.00 grams
Rms	2.51
Cms	0.1500
Bl	21.14 T\u00B7m
Le	0.730 mH
Sensitivity	97.07 dB

Cone/Dome Material	Paper GF
Spider	Conex
T-Plate	8 mm
Xmax (peak)	5.9 mm
Xmech	13.9 mm
Overall Diameter	461.00 mm
Bolt Circle Diameter	442.00 mm
Baffle Cutout Dia.	422.00 mm
Mounting Holes	8
Depth (flange to rear)	184.00 mm
Net Weight	8.80 kg

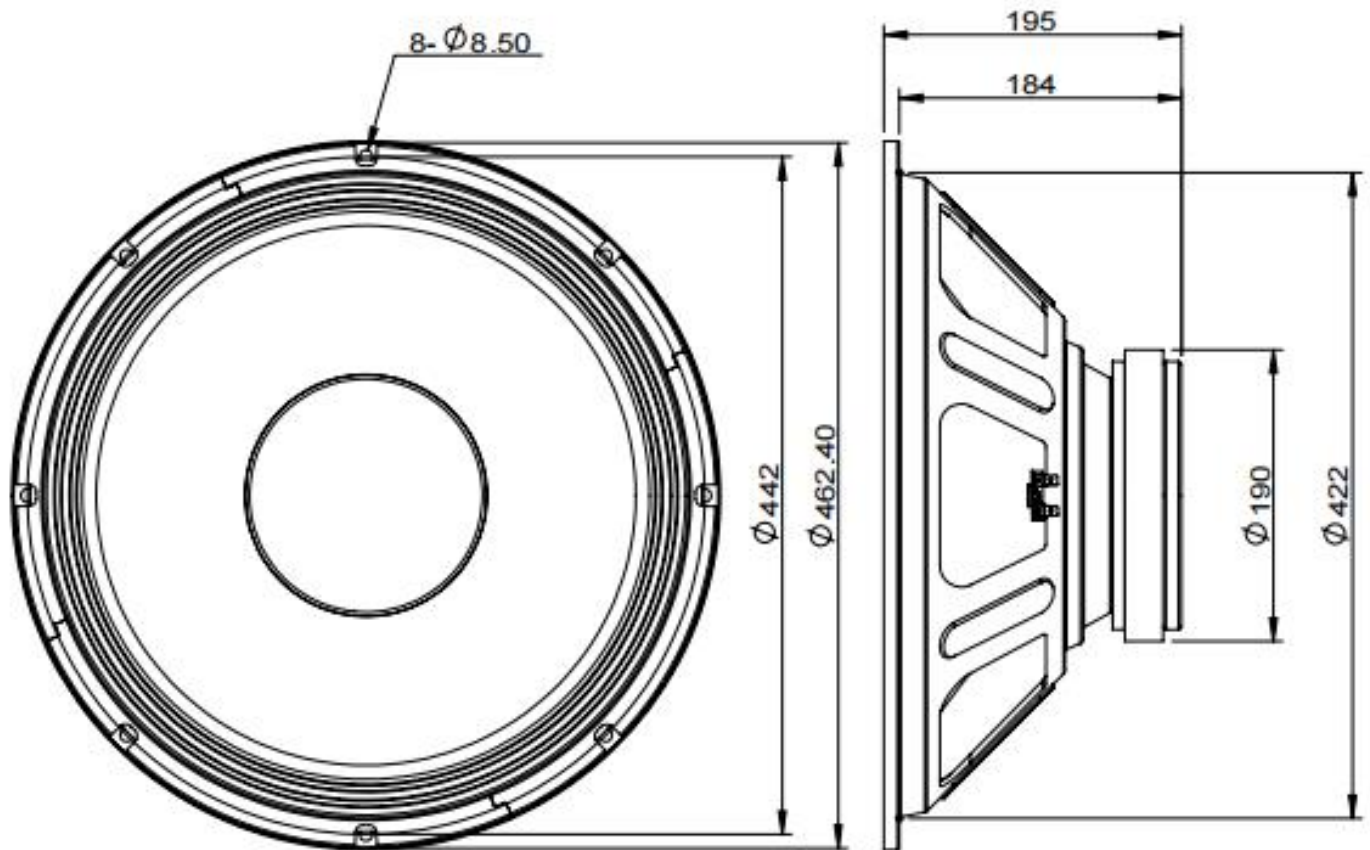
DOWNLOADS

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

Frequency Response & Impedance



2D Drawing



Technical Summary

The 183FINDX8-297 is a 18-inch high-output mid-woofer driver designed for professional 2-way and multi-way systems requiring high sensitivity (97 dB 1W/1m) and controlled low-frequency behavior. The driver uses a balanced motor-suspension design that provides good cone control while maintaining usable output across its operating bandwidth.

The driver is intended for use with high-power amplification (approx. 600 W AES / 1200 W continuous) and DSP control. A high-pass filter in the range of 20-29 Hz is recommended depending on enclosure tuning, along with proper limiting to manage thermal and mechanical stress. Typical operating bandwidth is 26-1500 Hz, covering bass through upper-mid frequencies for direct integration with a compression driver or tweeter in a two-way or multi-way system.

This design is particularly effective in single or multi-driver bass reflex systems used in professional two-way and multi-way PA systems, powered monitors, and compact bass-reflex

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):

- 215 liters tuned to 37 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 34 Hz, HP filter 29 Hz
- 250 liters tuned to 34 Hz: balanced response, general-purpose (recommended); -3 dB approx. 31 Hz, HP filter 24 Hz
- 275 liters tuned to 30 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 26 Hz, HP filter 20 Hz

Frequently Asked Questions

What are the key features of the 183FIND?



What enclosure is recommended for the 183FIND?



What applications is the 183FIND suited for?



What are the power and sensitivity specs of the 183FIND?



Related Products



LF 18"
18XR



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186FIND



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182FIND



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