

Code: DR-18-004-8R-B2-C0001

Variant of DR-18-004

KEY FEATURES

- ✓ 4.5 inch high temperature voice coil
- ✓ High Sound pressure level
- ✓ Very high power handling

QUICK SPECS

Impedance
8 Ω

Sensitivity
96.00 dB

Magnet
Ferrite

Program Power
3600 W

Fs
33.00 Hz

Voice Coil
114.3 mm

 2D Drawing

 3D Model (STEP)

Design Notes

Introducing 186FIND, the powerhouse woofer designed for superior audio performance. With a staggering 3,600 watts of peak power and a 4.5" voice coil that can withstand temperatures exceeding 350°C, this woofer is built to impress. Featuring a new paper pulp mixed with glass fibers, high excursion surround, and an extra large spider, it delivers unparalleled longevity and bass. The motor system's high grade ferrite magnet creates a strong symmetrical flux field, while the extended space below the voice coil allows for maximum excursion. Get ready to be blown away by the 186FIND woofer.

Specifications

Nominal Diameter	18	Rated Power	1800 W
Rated Impedance	8 Ohm	Continuous Power	3600 W
Magnet	Ferrite	Peak Power	7200 W
Basket Material	Aluminum		

VOICE COIL

Diameter	114.3 mm
Winding Wire	Copper
Former	Glass Fiber
Winding Height	31.8 mm

T/S PARAMETERS

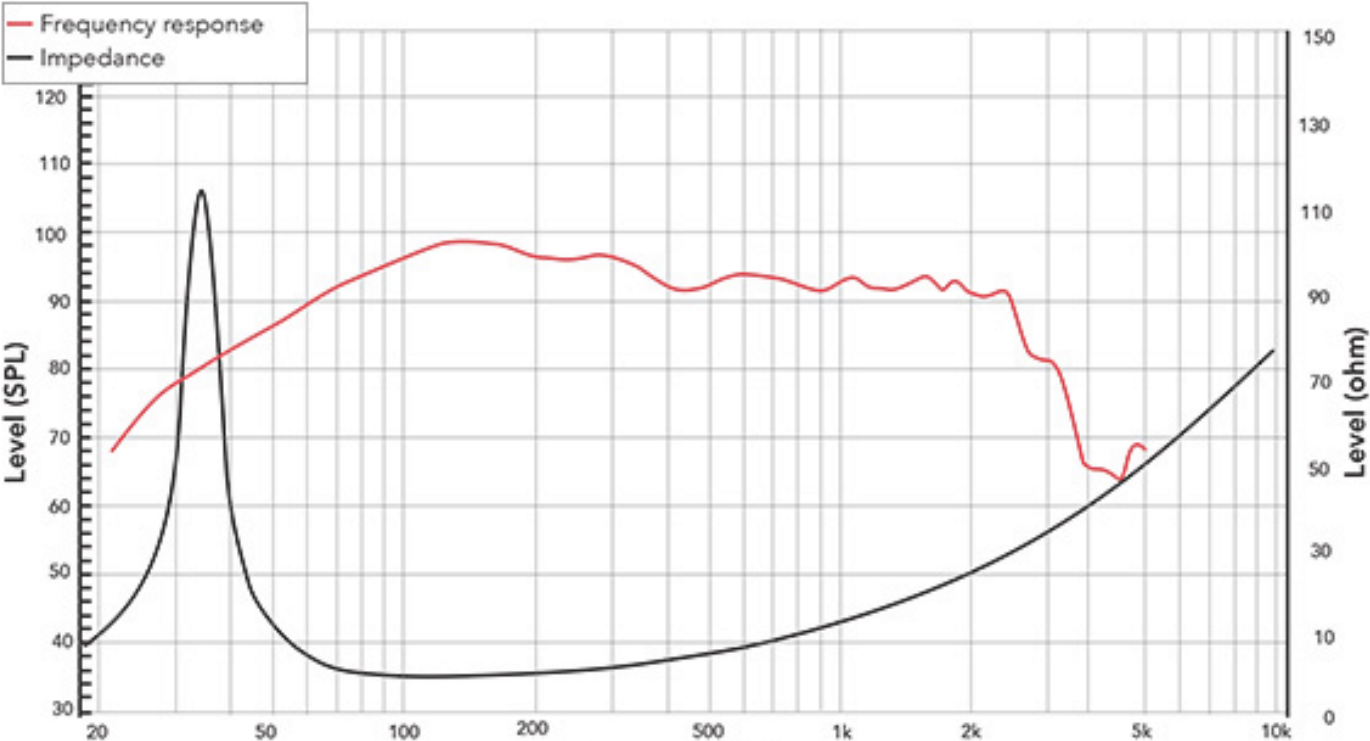
Resonant Frequency (Fs)	33.00 Hz
Re	5.50 \u2126
Qes	0.360
Qms	12.10
Qts	0.350
Vas	174.20 liters
Sd	1256.00 cm\u00B2
Mms	288.00 grams
Rms	4.90
Cms	0.0810
Bl	30.20 T\u00B7m
Le	1.510 mH
Sensitivity	96.00 dB

Cone/Dome Material	Paper GF
Spider	Nomex
T-Plate	15 mm
Xmax (peak)	8.4 mm
Xmech	23.4 mm
Overall Diameter	468.00 mm
Bolt Circle Diameter	442.00 mm
Baffle Cutout Dia.	423.00 mm
Mounting Holes	8
Depth (flange to rear)	212.00 mm
Net Weight	19.30 kg

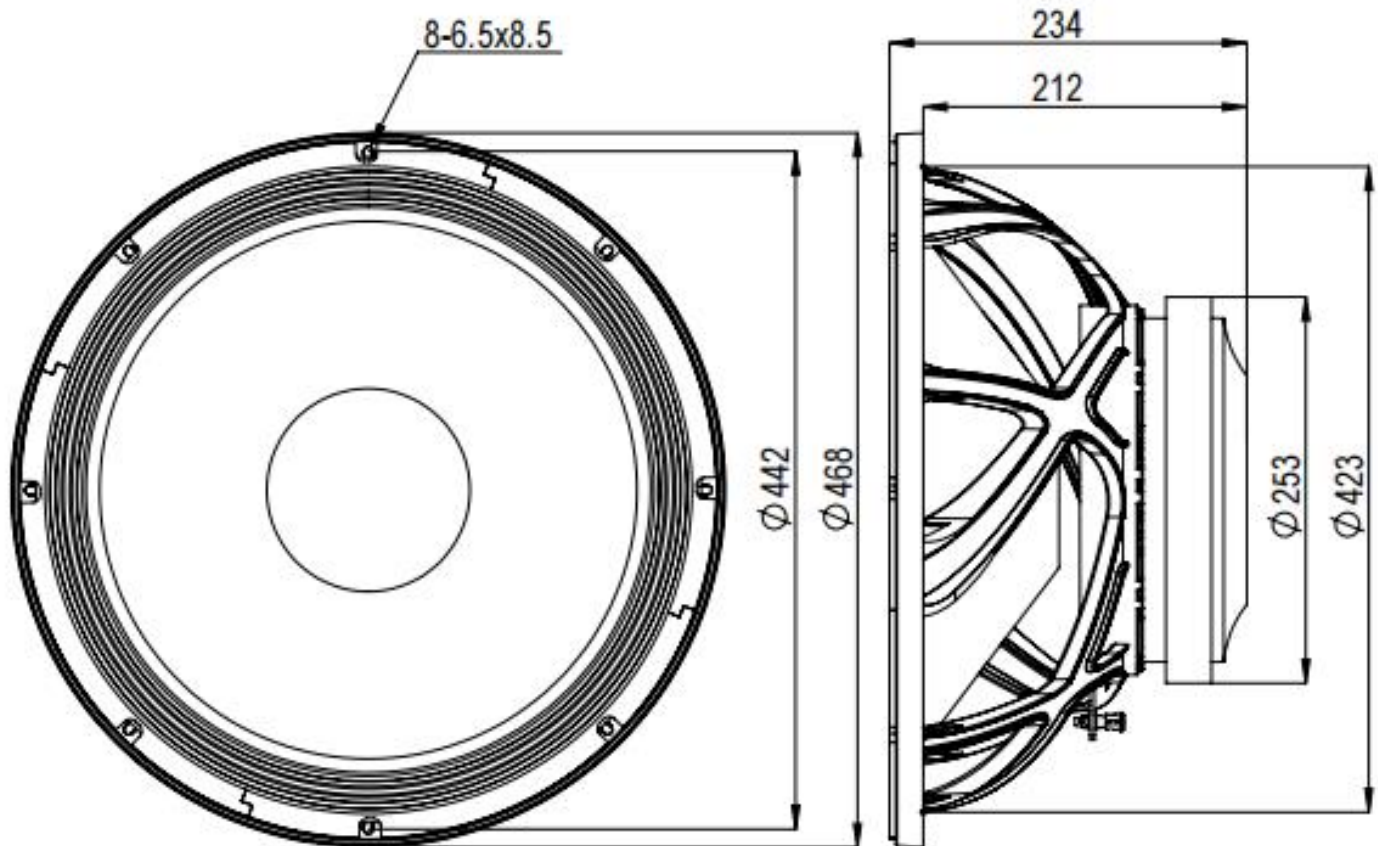
DOWNLOADS

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

Frequency Response & Impedance



2D Drawing



Technical Summary

The 186FINDX8-552A is a 18-inch high-output woofer driver designed for professional subwoofer systems requiring high sensitivity (96 dB 1W/1m) and controlled low-frequency behavior. The motor and suspension are optimized to maintain consistent performance at high drive levels, with controlled excursion and reduced thermal compression during long-term operation.

The driver is intended for use with high-power amplification (approx. 1800 W AES / 3600 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 25-100 Hz, making it suitable for integration with mid-bass or full-range systems.

This design is particularly effective in single or multi-driver bass reflex systems used in touring, installation, and high-SPL applications, where consistent performance, durability, and output

Enclosure Recommendations

Recommended enclosure alignments (bass reflex):

- 135 liters tuned to 37 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 34 Hz, HP filter 29 Hz
- 160 liters tuned to 33 Hz: balanced response, general-purpose (recommended); -3 dB approx. 30 Hz, HP filter 23 Hz
- 190 liters tuned to 29 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 25 Hz, HP filter 20 Hz

Frequently Asked Questions

What are the key features of the 186FIND?



What enclosure is recommended for the 186FIND?



What applications is the 186FIND suited for?



What are the power and sensitivity specs of the 186FIND?



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