



Code: DR-10-006-8R-B2-C0001

REDCATT 101FHW 10-inch ferrite professional subwoofer driver: 200 W AES, 87 dB sensitivity, 8 Ω , Fs 25 Hz, 50.8 mm voice coil. Full T/S parameters, datasheet, 2D drawing and STEP CAD file.

KEY FEATURES

- ✓ FIBER REINFORCED PAPER CONE
- ✓ TWO DEMODULATION RINGS
- ✓ OPTIMIZED AIR VENTILATION

QUICK SPECS

Impedance
8 Ω

Sensitivity
87.00 dB

Magnet
Ferrite

Program Power
400 W

Fs
25.00 Hz

Voice Coil
50.8 mm

 Datasheet (PDF)

 2D Drawing

 3D Model (STEP)

Design Notes

Introducing the 101FHW: the latest iteration of our award-winning 10FHW woofer model. This high-efficiency 10-inch subwoofer delivers an impressive 87dB sensitivity (1 watt / 1 meter), offering extended low-frequency response and robust power handling capabilities.

Crafted with a fiber-reinforced paper cone assembly and a single roll rubber surround, the 101FHW is built for durability and performance. Its Nomex spider, featuring stitched

The carefully selected materials provide remarkable strength, high efficiency, and sustained output under extreme conditions.

On the magnetic front, our REDCATT engineers have designed a cutting-edge ferrite-based magnetic circuit that sets a new standard for performance. This innovative design features a consistent, high-integrity magnetic flux gap, ultra-low distortion characteristics, and an efficient cooling system. With integrated aluminum shorting rings, the magnetic circuit minimizes flux modulation, ensuring exceptional stability and reliability.

Experience the power and precision of the 101FW—where cutting-edge technology meets outstanding performance.

Specifications

GENERAL SPECS

Nominal Diameter	10"
Rated Impedance	8 Ohm
Magnet	Ferrite
Basket Material	Aluminum

POWER HANDLING

AES Power	200 W
Continuous Power	400 W
Peak Power	800 W

Diameter	33.3 mm
Winding Wire	Copper
Former	Aluminum
Winding Height	32.3 mm

T/S PARAMETERS

Resonant Frequency (Fs)	25.00 Hz
Re	5.80 Ω
Qes	0.430
Qms	1.76
Qts	0.340
Vas	73.30 liters
Sd	363.00 cm ²
Mms	100.20 grams
Rms	8.94
Cms	0.4000
Bl	14.60 T·m
Le	0.630 mH
Sensitivity	87.00 dB

Construction Material

Value

Cone/Dome Material	Paper GF
Spider	Nomex
T-Plate	8 mm
Xmax (peak)	12.15 mm
Xmech	20.15 mm
Overall Diameter	269.00 mm
Bolt Circle Diameter	257.00 mm
Baffle Cutout Dia.	238.00 mm
Mounting Holes	8
Depth (flange to rear)	123.00 mm
Net Weight	6.00 kg
Packaging Dimensions	310X310X190 mm

ORDERING CODES

Product Code	DR-10-006-8R-B2-C0001
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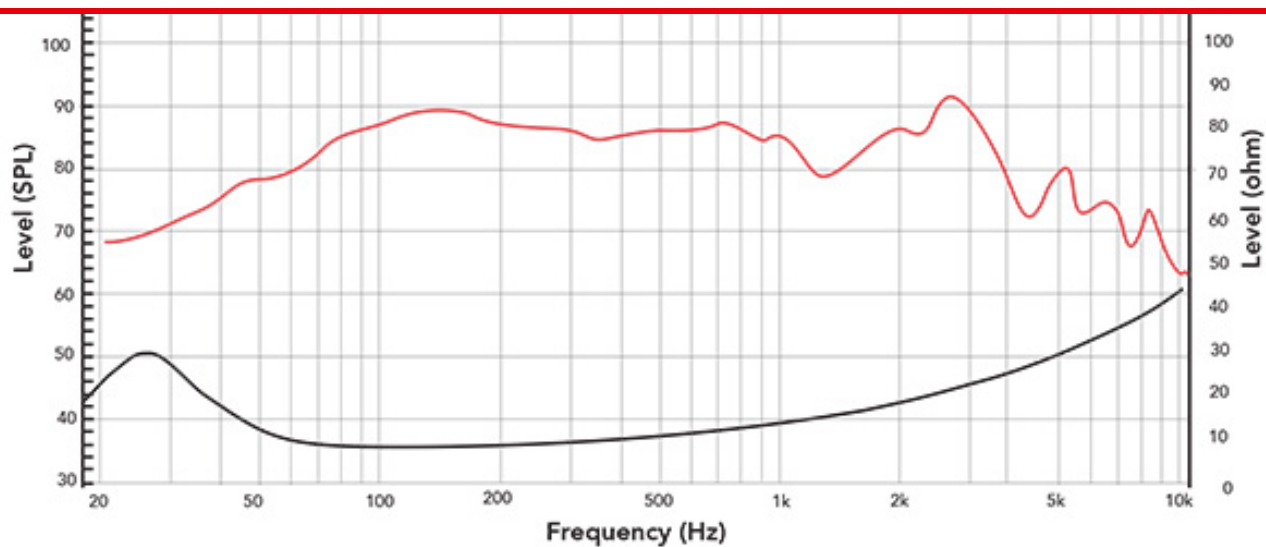
DOWNLOADS

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

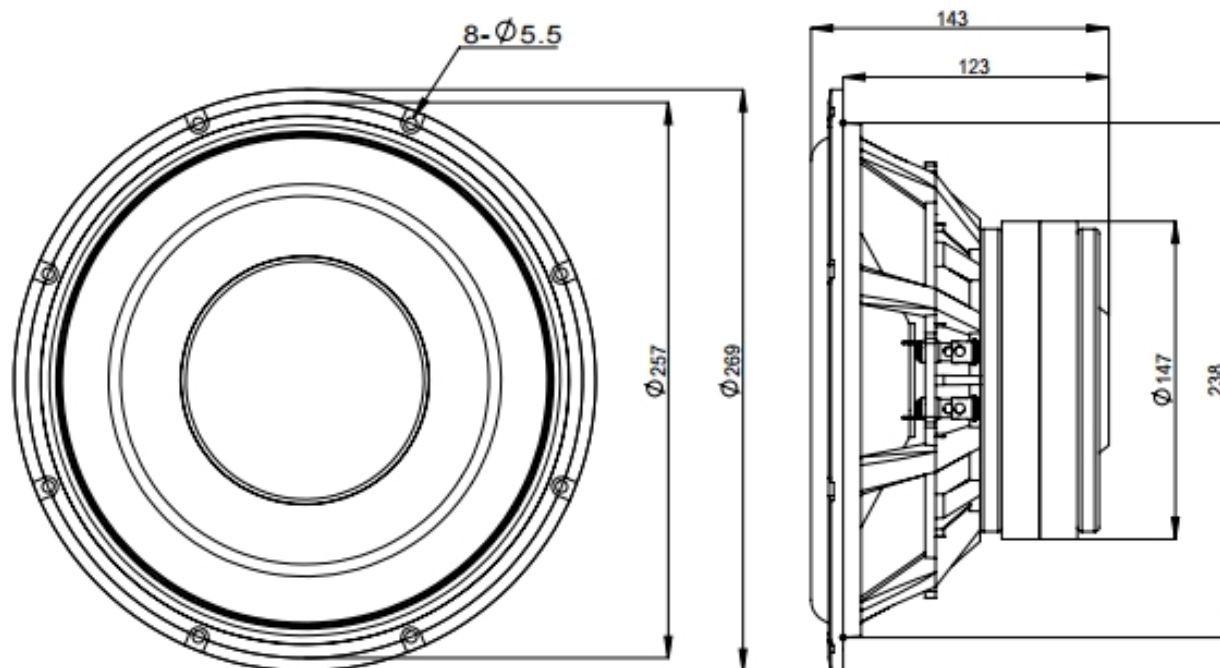
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Frequency Response & Impedance





2D Drawing



continuous) with a nominal 8-ohm impedance, designed for high-fidelity home audio, studio monitoring, and active bass management systems. Featuring a ferrite-based magnetic circuit with two aluminum demodulation rings, the driver provides low inductance, reduced flux modulation, and extended linearity throughout its operating range. The motor-suspension design is 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 amplification of approx. 200 W AES (400 W continuous) into 8 ohms, with a recommended high-pass filter in the 18-25 Hz range for vented systems, depending on tuning frequency. Sealed active systems should incorporate a Linkwitz Transform targeting $f_c = 25$ Hz, $Q_{tc} = 0.707$ with appropriate power limiting below 25 Hz. Cone excursion increases rapidly below enclosure tuning in vented systems, and below the transform frequency in DSP-corrected sealed systems; active protection is essential.

The 101FWX8-118D is suited for single-driver hi-fi subwoofers, 2.1 and multi-channel home theater systems, studio reference monitoring with sub-bass extension, and audiophile-grade active loudspeaker systems where low distortion, deep extension, and precise transient reproduction are required.

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):

- 40 liters tuned to 29 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 27 Hz, HP filter 25 Hz
- 50 liters tuned to 26 Hz: balanced response, general-purpose (recommended); -3 dB approx. 24 Hz, HP filter 22 Hz
- 50 liters tuned to 24 Hz: extended low-frequency, requires HP filter protection; -3 dB

Frequently Asked Questions

What are the key features of the 101FHW?



What enclosure is recommended for the 101FHW?



What applications is the 101FHW suited for?



What are the power and sensitivity specs of the 101FHW?



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