

10FHW

- APPLICATION:**
- Use in smaller volume, vented port applications where large amounts of very low frequency response is desired. Typical example could be hi-fi subwoofers, gaming or cinema sub-woofers



Ferrite Sub-Woofer

Ordering code: 10FHW-117

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
200 watts	84 dB	23 Hz	15 Hz - 2,800 Hz	2" 1out	Copper	Aluminum / Rubber	Ferrite

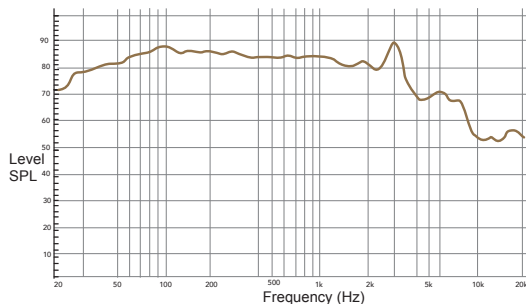
The 10FHW is a high efficiency, (84dB 1watt / 1 meter) 10-inch woofer speaker with extended low frequency response and high power handling capability. The 10FHW uses a strong anodized aluminum cone assembly along with a single roll rubber surround. Spider is Nomex material with stitched-in tinsel wires. This ensures long lasting performance even in high powered applications. The chosen material combination provides remarkable strength, high efficiency and sustained output under extreme conditions.

Magnetic Circuit

REDCATT engineers have developed a ferrite based magnetic circuit, capable of delivering the highest level of performance, providing a consistent, high integrity magnetic flux gap, ultra low distortion characteristic and high efficiency cooling system. The magnetic structure has integrated two aluminum shorting rings. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability.

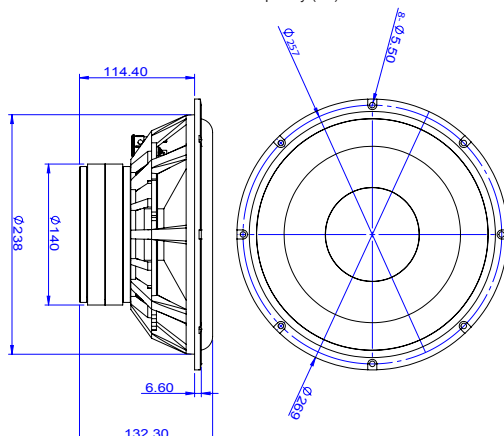
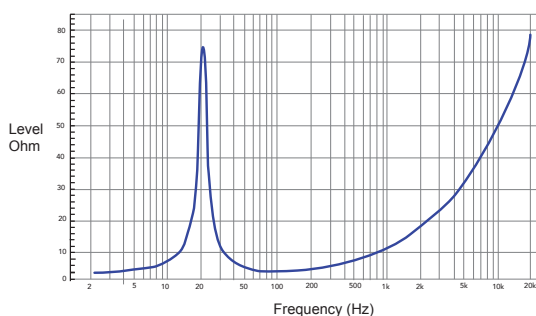


Frequency Response



Frequency response measurement with transducer mounted in a 20 liter vented enclosure tuned to 65Hz

Impedance Response



General Specifications

Nominal Diameter:	254 mm (10 in.)
Rated Impedance:	4 ohm
Power Handling:	
AES Power:	100 Watts
Power Compression @-10dB	0.7dB
Power Compression @-10dB	1.2dB
Power Compression @Max Power	2.3dB
Maximum Recommended Xover Freq.:	1,800 Hz
Recommended Enclosure Volume:	15 - 30 Liters
Cone Design:	Exp. Gmtry
Front Plate Thickness:	8mm
Winding Height:	34.5 mm
Fs	23 Hz
Re	3.4 Ohm
Sd	252 cm ² (39 in. ²)
Qms	4.91
Qes	0.45
Qts	0.41
Vas	41.8 Liters
Mms	95 g
BL product (force factor)	10.5 Tm
Peak to peak displacement (mm)	13.25 mm
Le (mH @1kHz)	1.24
Overall diameter	269 mm (10.6 in.)
No. of mounting holes	8
Bolt circle diameter	257 mm (10.12 in.)
Front mount baffle cutout dia.	238 mm (9.37 in.)Nominal
Rear mount baffle cutout diameter	230 mm (9.1 in.)Nominal
Total depth	114.5 mm (4.51 in.)
Flange and gasket thickness	-- --
Net weight	5 kg (8.11 lbs.)
Shipping weight	5.90 kg (13 lbs.)
Packing Dimensions	30x30x16 cm (11.8x11.8x6.3in)

