10" 10FHW

Sub-woofer

REDCATT

Key features:

- GOOD LOW FREQUENCY EXTENSION
- ALUMINUM CHASSIS, ALUMINUM CONE, NOMEX SPIDER WITH ATTACHED TINSEL WIRE
- HIGH POWER HANDLING

Design notes:

The 10FHW is a high efficiency, (87dB 1watt / 1 meter) 10-inch sub-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-on 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.

Specifications:

General specs	
Nominal Diameter:	10"
Rated Impedance:	4 ohm

Power handling	
AES Power:	200 watts
Program Power:	400 watts
Peak Power:	800 watts

Voice Coil	
Diameter:	2 in.
Winding wire:	Copper
Former:	Glass Fiber
Winding height:	32.3 mm

T/S Parameters	
Resonant frequency:	25 Hz
Re:	3.6 ohm
Qes:	0.4
Qms:	13.72
Qts:	0.39
Vas:	57.9 liters
Sd:	330.1 cm2
Sensitivity:	87 dB
Mms:	110.4 grams
Bl:	12.7
Le:	0.62 mH

Design details	
Surround Material:	Rubber
Cone material:	Aluminum
Spider:	Nomex
Plate thickness:	8 mm
Peak to peak linear cone displacement	29.4 mm
Overall diameter:	269 mm
Bolt circle diameter:	258 mm
Baffle cutout dia.:	239 mm
Number of mounting holes:	8
Depth (flange to rear):	117 mm
Net weight:	6kg

Ordering codes:

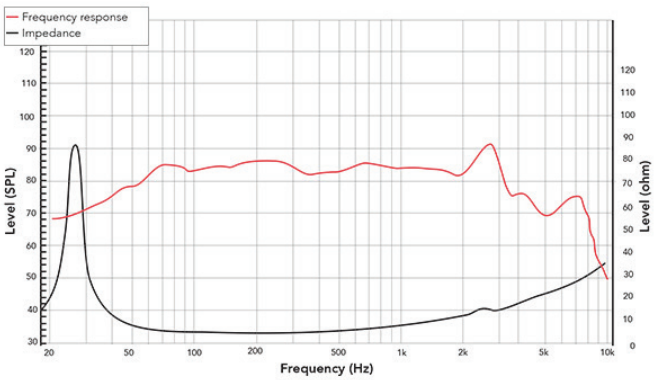
10FHW-X4 ohm-117

Recone kits:

RC10FHWX-117

In many cases REDCATT produces 4 ohms, 8 ohms and 16 ohms versions. Indicate what impedance do you need in your request.

Frequency response & Impedance



Frequency response measured on IAC baffle

2D drawing