# 10” | 10FHW

# Ferrite 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, (84dB 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: | 88.75 dB |
| Mms: | 110.4 grams |
| Bl: | 12.7 |
| Le: | 0.62 mH |

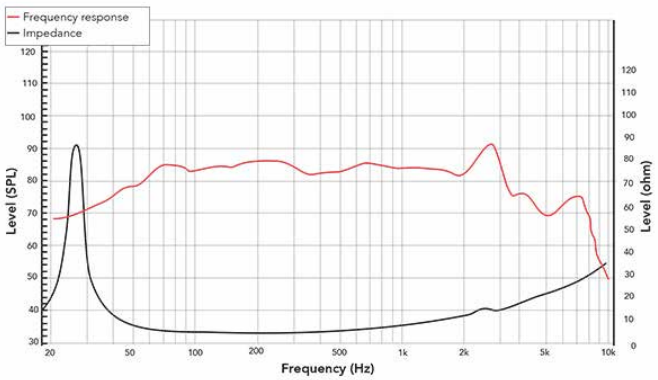
| Design details | |
|---|---|
| Surround Material: | Rubber |
| Cone material: | Aluminum |
| Spider: | Nomex |
| Plate thickness: | 8 mm |
| Peak to peak linear cone displacement | 14.7 mm |
| Overall diameter: | 269 mm |
| Bolt circle diameter: | 258 mm |
| Baffle cutout dia.: | 239 mm |
| Number of mounting holes: | 8 |
| Depth (flange to rear): | 117 mm |
| Net weight: | 6kg |

| Ordering codes: | |
|---|---|
| | 10FHWX4-117 |

Recone kits:

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