

**8"****81FHW**

# Ferrite Woofer



### Key features:

- GOOD LOW FREQUENCY RESPONSE
- LIGHTWEIGHT SURROUND, STIFF PAPER CONE
- AFFORDABLE WOOFER

### Design notes:

The 81FHW woofer was designed with smaller hi-fi subwoofers in mind. The woofer works well in vented enclosures or combined with a passive radiator. Optimized magnetic structure delivers good level of performance and balancing well performance vs cost.

material we use for the surround and guarantees its long lasting performance.

We have chosen lightweight foam surround in this design. Our extensive development and testing of this material yielded in custom formulation of the raw

### Specifications:

#### General specs

Nominal Diameter: 8"  
Rated Impedance: 4 ohm

#### Power handling

AES Power: 100 watts  
Program Power: 200 watts  
Peak Power: 400 watts

#### Voice Coil

Diameter: 1.4 in.  
Winding wire: Copper  
Former: Aluminum  
Winding height: 18.2 mm

#### T/S Parameters

Resonant frequency: 39 Hz  
Re: 3.6 ohm  
Qes: 0.58  
Qms: 5.4  
Qts: 0.52  
Vas: 21.5 liters  
Sd: 201.1 cm<sup>2</sup>  
Sensitivity: 85.94 dB  
Mms: 44 grams  
Bl: 8.25  
Le: 1.12 mH

#### Design details

Surround Material: Foam  
Cone material: Paper  
Spider: Nomex  
Plate thickness: 6 mm  
Peak to peak linear cone displacement: 9.5 mm  
Overall diameter: 209 mm  
Bolt circle diameter: 197 mm  
Baffle cutout dia.: 180 mm  
Number of mounting holes: 8  
Depth (flange to rear): 95 mm  
Net weight: 1.7kg

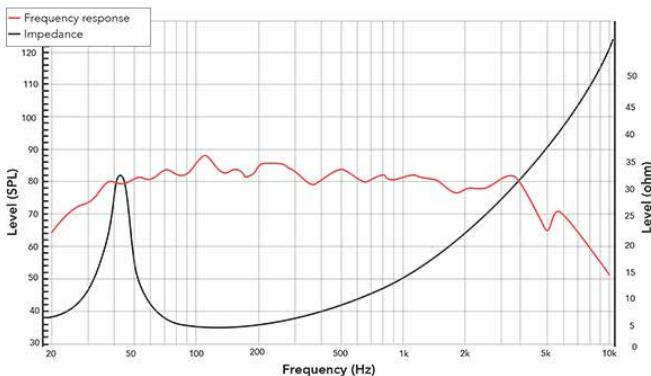
#### Ordering codes:

81FHWX4-289

#### 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

