

6"**61XR**

Neodymium Mid-Woofer



Key features:

- EXTENDED FREQUENCY RESPONSE, INCREDIBLE SOUND REPRODUCTION CLARITY
- SECONDARY AND STATIC SHORTING COIL
- HIGH POWER HANDLING

Design notes:

The 61XR was designed to be simply the best driver for 2-way and multi-way systems on the market, yet this driver will also shine in sub-woofer applications. The combination of our XR patented technology with static shorting coil brings a non-parallel opportunity to the audio designers. The common request for 2-way speakers is „Ämore of everything,Ä. Designers wish for more bass, more mids. Well, there you have it! But not only that. We bring

this with clarity in the mid-frequencies and undistorted bass.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding, together with the 2nd and static coil placed on the pole piece. This has allowed us to push the cone excursion to 30mm peak to peak, while lowering the inductance. The shorting coil covers

the complete main coil excursion. This is also an improvement compared to some previous designs on the market.

Our extensive R&D on the surround foam material has yielded material that has proven its benefits over and over again. The surround is extremely light, yet it allows the cone excursion as the traditional, but heavier, rubber surround.

61XR best application is in hi-quality home hi-fi applications and studio

Specifications:

General specs

Nominal Diameter: 6"

Rated Impedance: 4 ohm

Power handling

AES Power: 100 watts

Program Power: 200 watts

Peak Power: 400 watts

Voice Coil

Diameter: 1.75 in.

Winding wire: Copper

Former: Glass Fiber

Winding height: 10.3 mm

T/S Parameters

Resonant frequency: 64 Hz

Re: 3.1 ohm

Qes: 0.96

Qms: 2.88

Qts: 0.72

Vas: 8.6 liters

Sd: 132.7 cm²

Sensitivity: 87.02 dB

Mms: 17.3 grams

Bl: 4.77

Le: 0.06 mH

Design details

Surround Material: Foam

Cone material: Paper

Spider: Nomex

Plate thickness: 27 mm

Peak to peak linear cone displacement: 9.8 mm

Overall diameter: 181.5 mm

Bolt circle diameter: 169.5 mm

Baffle cutout dia.: 151 mm

Number of mounting holes: 6

Depth (flange to rear): 94 mm

Net weight: 1.5kg

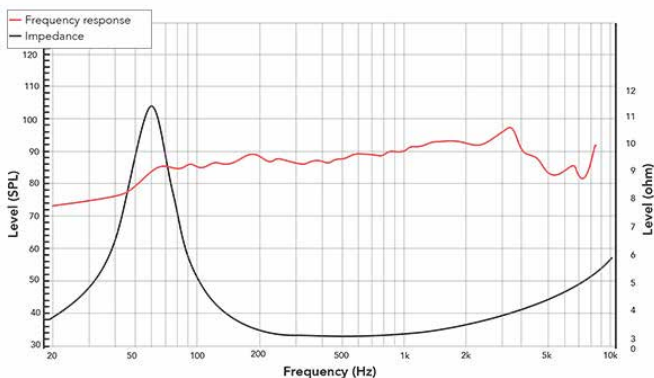
Ordering codes:

61XR4-404D

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

