6" | 61XR

Mid-woofer

REDCATT

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. We bring this with clarity in the mid-frequencies and undistorted bass. The combination of our XR patented technology with static shorting coil brings an nonparallel opportunity to the audio designers.

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 monitors where the requirements for precise sound reproduction without distortion artifacts are required.

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 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	19.6 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:

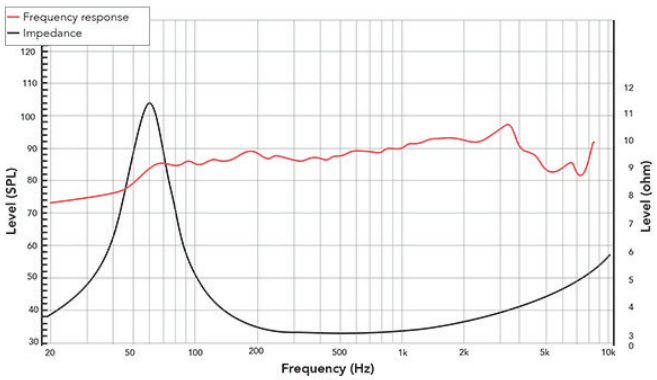
61XR-X4 ohm-404D

Recone kits:

RC61XRX-404D

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