

21" 21XR

Sub-woofer



Key features:

- LINEAR CONE EXCURSION 60MM PEAK TO PEAK !!
- UNPARALLEL LOW DISTORTION AT LOW FREQUENCIES
- PATENTED DESIGN, INNOVATIVE MAGNETIC STRUCTURE & VENTING SYSTEM

Design notes:

The 21XR is a high efficiency, (96 dB 1watt / 1 meter) 21-inch woofer with incredibly linear frequency response characteristics. Our new and patented ground up motor design is a new approach to high-excursion woofers. The voice coil winding is always in the magnetic gap that is extremely wide. This feature ensures extremely low distortion across whole working range of this unique driver.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding. This has allowed us to push the cone excursion to 50mm peak to peak. Unique gap venting ensures good air circulation and greatly improves the reliability of this driver. We have also developed a new technique for

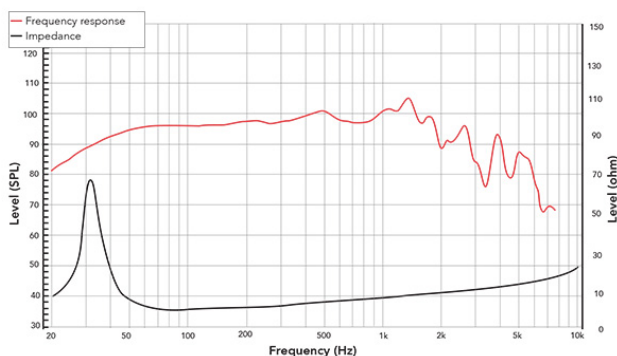
manufacturing deep copper caps that are implemented in this design and covering the whole voice coil movement..

The design further utilizes triple, uncommonly large, spiders, spaced with spacers, hot-pressed tinsel wires onto the top spider, reinforced cone edge, reinforced surround to cone joint, reinforced spider to basket joints, etc.

Specifications:

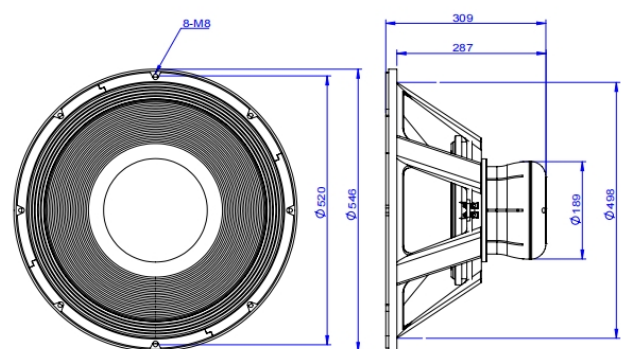
General specs	T/S Parameters	Design details	Ordering codes:
Nominal Diameter: 21 "	Resonant frequency: 32.3 Hz	Surround Material: fabric	DR-21-003-8R-B2-C0001
Rated Impedance: 8 ohm	Re: 4.5 ohm	Cone material: Paper CF	Legacy code: 21XR8-347A
Power handling	Qes: 0.51	Spider: Nomex	Recone kits:
AES Power: 1800 watts	Qms: 16.79	Plate thickness: 66.66 mm	RC21XR8-347A
Program Power: 3600 watts	Qts: 0.5	Overall diameter: 549 mm	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.
Peak Power: 7200 watts	Vas: 194.45 liters	Bolt circle diameter: 525 mm	
Voice Coil	Sd: 1662 cm²	Baffle cutout dia.: 503 mm	
Diameter: 134.6 mm	Sensitivity: 95.7 dB	Mounting holes: 8	
Winding wire: Copper	Mms: 488.58 grams	Depth: 287 mm	
Former: Glass Fiber	Bl: 29.37	Net weight: 23.8 kg	
Winding height: 21 mm	Le: 0.65 mH		

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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