

21" 21NPW

Sub-woofer



Key features:

- 5.3" DIAMETER VOICE COIL
- 3600 WATTS PROGRAM POWER HANDLING
- TRIPLE SILICONE SPIDER, HEAVY DUTY FIBER REINFORCED CONE WITH LARGE SURROUND

Design notes:

The 21NPW is a high efficiency, (96 dB 1watt / 1 meter) 21-inch woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts. The 21NPW uses a lightweight carbon fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. This combination provides remarkable strength, high efficiency

and a peak to peak maximum excursion of 31mm.

Power Handling

At the core of the 21NPW is it's voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 350C, well beyond the thermal requirements of modern

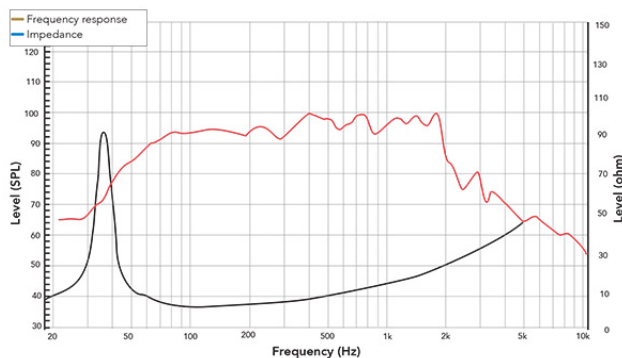
professional audio systems. The 21NPW delivers incredible performance.

REDCATT has implemented a triple layer/silicone spider design to ensure long term Fs memory, consistency and diminish anomalies associated with spider deterioration.

Specifications:

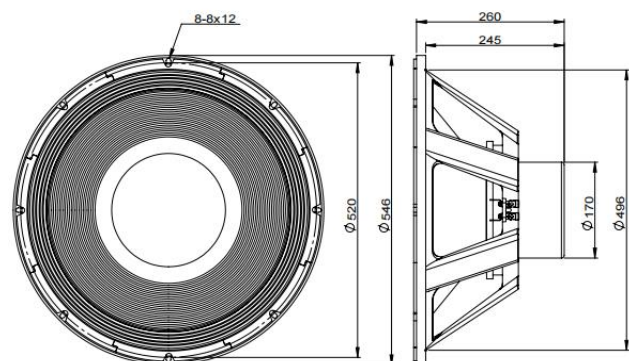
General specs	T/S Parameters	Design details	Ordering codes:
Nominal Diameter: 21 "	Resonant frequency: 35 Hz	Surround Material: fabric	DR-21-002-4R-B2-C0001
Rated Impedance: 4 ohm	Re: 3 ohm	Cone material: Paper CF	Legacy code: 21NPWX4-018
Power handling	Qes: 0.33	Spider: Nomex	Recone kits:
AES Power: 1800 watts	Qms: 11.12	Plate thickness: 15 mm	RC21NPWX4-018
Program Power: 3600 watts	Qts: 0.32	Overall diameter: 546 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: 149 liters	Bolt circle diameter: 520 mm	
Voice Coil	Sd: 1662 cm²	Baffle cutout dia.: 496 mm	
Diameter: 134.6 mm	Sensitivity: 96.32 dB	Mounting holes: 8	
Winding wire: Copper	Mms: 514 grams	Depth: 245 mm	
Former: Glass Fiber	Bl: 32.9	Net weight: 14.85 kg	
Winding height: 33 mm	Le: 1.14 mH		

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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