

12" 122NPW

Woofer



Key features:

- CARBON FIBER FILLED PAPER CONE
- DOUBLE SILICONE SPIDER
- HIGH POWER HANDLING

Design notes:

The 122NPW is a high efficiency, (97 dB 1watt / 1 meter) 12-inch woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts. The 122NPW 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 19mm. Woofer features REDCATT double silicone sealed spider.

Power Handling
At the core of the 122NPW is it's voice coil technology featuring a composite Polyimide former material capable of withstanding peak

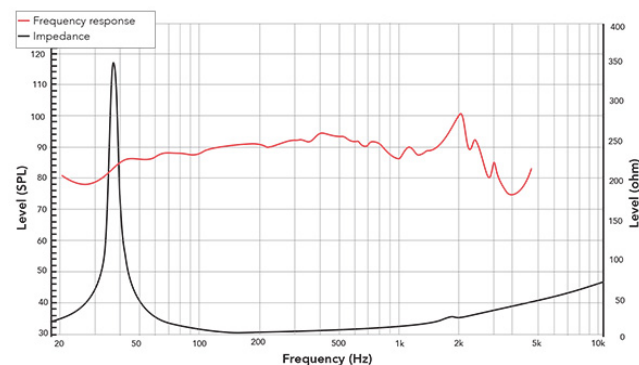
temperatures in excess of 350degC, well beyond the thermal requirements of modern professional audio systems.

The woofer cone is also extensively treated to withstand harsh environments and high humidity. Metal parts in the speaker assembly are coated for extreme weatherization protection.

Specifications:

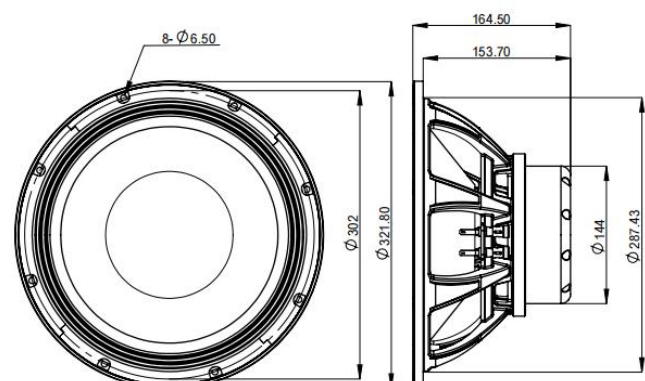
General specs	T/S Parameters	Design details	Ordering codes:
Nominal Diameter: 12 "	Resonant frequency: 35 Hz	Surround Material: fabric	DR-12-018-8R-B2-C0001
Rated Impedance: 8 ohm	Re: 5.5 ohm	Cone material: Paper CF	Legacy code: 122NPWX8-102
Power handling	Qes: 0.17	Spider: Nomex	Recone kits:
AES Power: 800 watts	Qms: 6.65	Plate thickness: 14 mm	RC122NPWX8-102
Program Power: 1600 watts	Qts: 0.17	Overall diameter: 322 mm	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.
Peak Power: 3200 watts	Vas: 81.9 liters	Bolt circle diameter: 302 mm	
Voice Coil	Sd: 551 cm²	Baffle cutout dia.: 287 mm	
Diameter: 101.6 mm	Sensitivity: 96.88 dB	Mounting holes: 8	
Winding wire: Copper	Mms: 81.9 grams	Depth: 154 mm	
Former: Glass Fiber	Bl: 27	Net weight: 7.6 kg	
Winding height: 25.5 mm	Le: 1.27 mH		

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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