

APPLICATION: Ideal for ported or band pass subwoofer designs where siz-

able amount of low frequencies is required



Ordering code	e: 122NPW	-102	Neodymium Low Frequency Woofer				
Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
1600 watts	97 dB	42 Hz	35 Hz - 2 500 Hz	4'' 1in/1out	Conner	Paper w. CE/ Fabric	Neodymium



General Specifications				
Nominal Diameter:	320 mm (12 in.)			
Rated Impedance:	8 ohm			
Power Handling:				
AES Power:	800 Watts			
Power Compression @-10dB	0.7dB			
Power Compression @-10dB	1.5dB			
Power Compression @Max Power	2.2dB			
Maximum Recommended Xover Free	ą.: 1,500 Hz			
Recommended Enclosure Volume:	35 - 80 Liters 1.25-2.83cuft.			
Cone Design:	Exp. Gmtry, Redcatt Cell.			
Fs	42 Hz			
Re	5.7 Ohm			
Sd	551 cm ² (85.4 in. ²)			
Qms	15			
Qes	0.21			
Ots	0.2			
Vas	66 Liters			
Mms	109 g			
BL product (force factor)	27 Tm			
Peak to peak displacement (mm)	10.5			
Le (mH @1kHz)	1.61			
Overall diameter	322 mm (12.7 in.)			
No. of mounting holes	8			
Bolt circle diameter	302 mm (11.9 in.)			
Front mount baffle cutout dia.	290mm (11.42 in.)Nominal			
Rear mount baffle cutout diameter	287 mm (11.3 in.)Nominal			
Total depth	164 mm (6.46 in.)			
Flange and gasket thickness	10 mm (0.39 in.)			
Net weight	8.1 kg (17.8 lbs.)			
Shipping weight	8.7 kg (19.1 lbs.)			
Packing Dimensions	340x340x170mm			

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 22mm (0.9in). 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.

Frequency Response



Frequency response measurement with transducer mounted in a 40 liter vented enclosure tuned to 65Hz

Impedance Response







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