12" 121NPM

Mid-woofer

REDCATT

Key features:

- VERY HIGH EFFICIENCY MID-WOOFER
- LINEAR FREQUENCY RESPONSE, LOW HARMONIC DISTORTION
- LIGHTWEIGHT CARBON FIBER LOADED PAPER CONE, NOMEX SPIDER

Design notes:

The 121NPM is a ultra high efficiency, (100dB 1watt / 1 meter) 12-inch mid bass woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts.-
The 121NPM uses a lightweight carbon fiber loaded cone assembly along with a precision double roll constant geometry surround. This combination provides remarkable strength, high efficiency and a excursion linearity of 14.2mm.

Magnetic Circuit
REDCATT engineers have developed a lightweight, neodymium outside ring based magnetic circuit capable of delivering the highest level of performance providing a consistent, high integrity magnetic flux gap, ultra low distortion characteristic and high efficiency cooling system. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability.

Specifications:

General specs	
Nominal Diameter:	12"
Rated Impedance:	8 ohm

Power handling	
AES Power:	450 watts
Program Power:	900 watts
Peak Power:	1800 watts

Voice Coil	
Diameter:	3 in.
Winding wire:	CCAW
Former:	Glass Fiber
Winding height:	13 mm

T/S Parameters	
Resonant frequency:	50 Hz
Re:	6.0 ohm
Qes:	0.16
Qms:	7.51
Qts:	0.16
Vas:	59.2 liters
Sd:	531 cm2
Sensitivity:	100 dB
Mms:	66.7 grams
Bl:	27.8
Le:	0.51 mH

Design details	
Surround Material:	Fabric
Cone material:	Paper
Spider:	Nomex
Plate thickness:	10 mm
Peak to peak linear cone displacement	14.2 mm
Overall diameter:	315 mm
Bolt circle diameter:	298 mm
Baffle cutout dia.:	285 mm
Number of mounting holes:	8
Depth (flange to rear):	123.5 mm
Net weight:	4kg

Ordering codes:

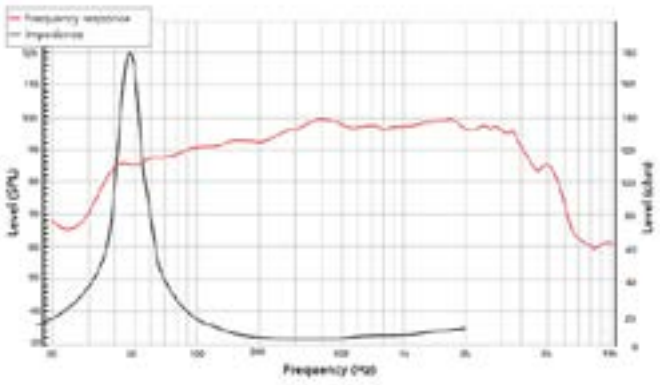
121NPM-X8 ohm-079

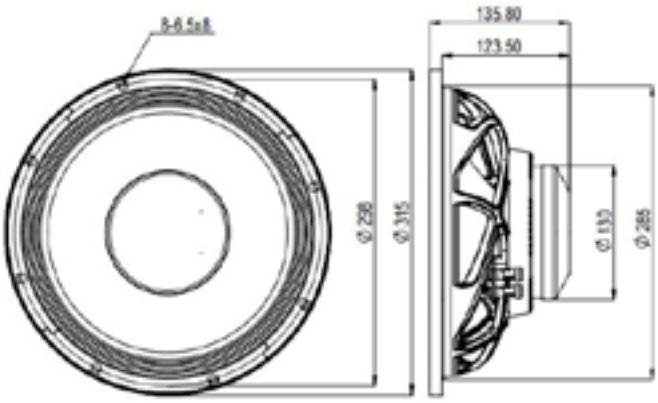
Recone kits:

RC121NPMX-079

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