



**Key features:**

- CARBON FIBER LOADED PAPER CONE
- VERY HIGH EFFICIENCY
- LIGHTWEIGHT MECHANICAL STRUCTURE

**Design notes:**

The 12NPM is a high efficiency, (98.5 dB 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 12NPM 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 7.5mm.

**Magnetic Circuit**

REDCATT engineers have developed a lightweight, inside-neodymium slug 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 gener-

ate the minimum amount of flux modulation, providing exceptional stability.

**Specifications:**

**General specs**

Nominal Diameter:	12 in.
Rated Impedance:	4 Ohm

**Power handling**

AES Power:	500 Watts
Program Power:	1000 Watts
Peak Power:	2000 Watts

**Voice Coil**

Diameter:	3 in.
Winding wire:	CCAW
Former:	Glass Fiber
Winding height:	19 mm

**T/S Parameters**

Resonant frequency:	48 Hz
Re:	4.6 ohm
Qes:	0.312
Qms:	4.1
Qts:	0.29
Vas:	64.8 liters
Sd:	531 cm <sup>2</sup>
Sensitivity:	99.2 dB
Mms:	57.5 grams
Bl:	16.6
Le:	0.59 mH

**Design details**

Surround Material:	Fabric
Cone material:	Paper with CF
Spider:	Single nomex
Plate thickness:	10 mm
Peak to peak linear cone Displacement	18 mm
Overall diameter:	315 mm
Bolt circle diameter:	298 mm
Baffle cutout dia.:	284.5 mm
Number of mounting holes:	8
Depth (flange to rear):	132 mm
Net weight:	3.9 kg

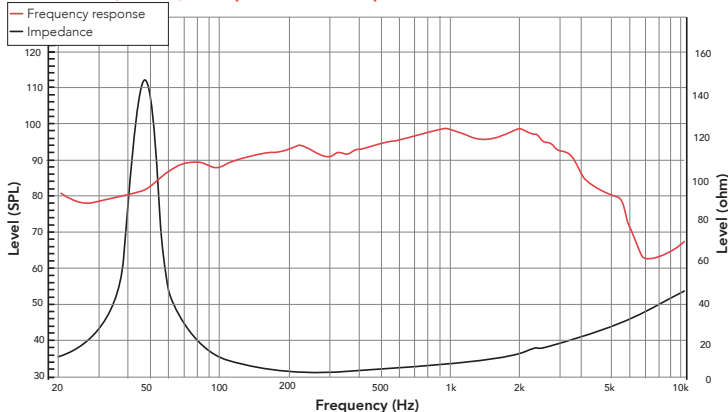
**Ordering codes:**

4 ohm version:	12NPMX4-054
8 ohm version:	12NPMX8-242
16 ohm version:	12NPMX16-054

**Recone kits:**

4 ohm version:	RC12NPMX4-054
8 ohm version:	RC12NPMX8-242
16 ohm version:	RC12NPMX16-054

**Frequency response & Impedance**



Frequency response measured on IAC baffle

**2D drawing**

