

12" 12NPM

Mid-Woofer



Key features:

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

Design notes:

The 12NPM is a high efficiency, (98 dB 1 watt / 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 18.2mm.

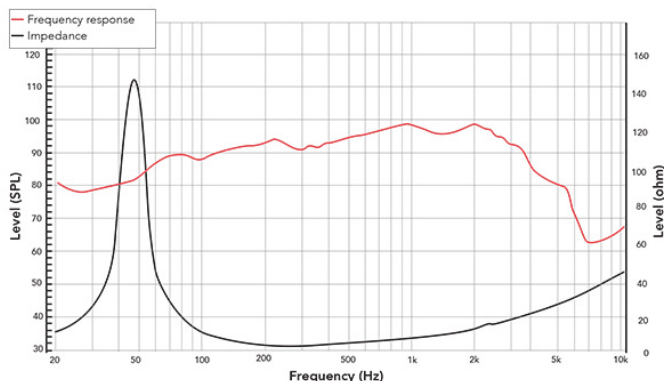
Magnetic Circuit
REDCATT engineers have developed a lightweight, inside-neodymium slug based

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

Specifications:

General specs		T/S Parameters		Design details		Ordering code:	
Nominal Diameter:	12 "	Resonant frequency:	49 Hz	Surround Material:	fabric	DR-12-004-8R-B2-C0001	
Rated Impedance:	8 ohm	Re:	4.7 ohm	Cone material:	Paper GF		
Power handling		Qes:	0.32	Spider:	Nomex	In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.	
AES Power:	450 watts	Qms:	9.95	Plate thickness:	10.5 mm		
Program Power:	900 watts	Qts:	0.31	Overall diameter:	315 mm		
Peak Power:	1800 watts	Vas:	63.6 liters	Bolt circle diameter:	298 mm		
Voice Coil		Sd:	531 cm ²	Baffle cutout dia.:	285 mm		
Diameter:	76 mm	Sensitivity:	98 dB	Mounting holes:	8		
Winding wire:	CCA W	Mms:	65.6 grams	Depth:	142.5 mm		
Former:	Glass Fiber	Bl:	17.3	Net weight:	4.1 kg		
Winding height:	18.6 mm	Le:	0.65 mH				

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing

