12" 12NPM

Mid-Woofer

REDCATT

Key features:

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

Design notes:

The 12NPM is a high efficiency, (98 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 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	
Nominal Diameter:	12 "
Rated Impedance:	8 ohm
Power handling	
AES Power:	450 watts
Program Power:	900 watts
Peak Power:	1800 watts
Voice Coil	
Diameter:	76 mm
Winding wire:	CCAW
Former:	Glass Fiber
Winding height:	18.6 mm

T/S Parameters	
Resonant frequency:	49 Hz
Re:	4.7 ohm
Qes:	0.32
Qms:	9.95
Qts:	0.31
Vas:	63.6 liters
Sd:	531 cm²
Sensitivity:	98 dB
Mms:	65.6 grams
Bl:	17.3
Le:	0.65 mH

Design details	
Surround Material:	fabric
Cone material:	Paper GF
Spider:	Nomex
Plate thickness:	10.5 mm
Overall diameter:	315 mm
Bolt circle diameter:	298 mm
Baffle cutout dia.:	285 mm
Mounting holes:	8
Depth:	142.5 mm
Net weight:	4.1 kg

Ordering codes:

DR-12-004-8R-B2-C0001

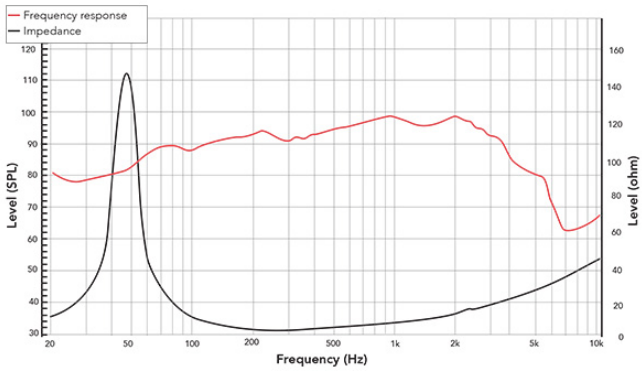
Legacy code: **054**

Recone kits:

RC054

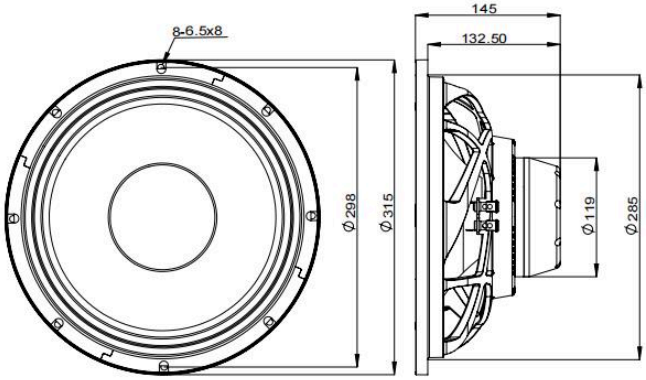
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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