

10" 101NPM

Mid-Woofer



Key features:

- **ULTRA LIGHTWEIGHT, DESIGNED FOR PORTABLE PRODUCTS**
- **HIGH EFFICIENCY, LOW HARMONIC DISTORTION**
- **CARBON FIBER LOADED PAPER CONE**

Design notes:

The 101NPM is a high efficiency, (95 dB 1watt / 1 meter) 10-inch mid-woofer with incredibly linear frequency response characteristics, high power handling capability, while generating ultra low harmonic distortion artifacts. The 101NPM uses a lightweight glass fiber loaded cone assembly along with a high excursion triple roll surround. This combination provides a

lightweight, yet strong, piston, high efficiency and a peak to peak maximum excursion of 13.6.

Magnetic Circuit
REDCATT engineers have developed a ultra 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 structure has integrated two aluminum shorting rings. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability.

Specifications:

General specs	
Nominal Diameter:	10 "
Rated Impedance:	8 ohm
Power handling	
AES Power:	150 watts
Program Power:	300 watts
Peak Power:	600 watts
Voice Coil	
Diameter:	50.8 mm
Winding wire:	CCAR
Former:	Glass Fiber
Winding height:	14.5 mm

T/S Parameters	
Resonant frequency:	53 Hz
Re:	5 ohm
Qes:	0.61
Qms:	5.51
Qts:	0.55
Vas:	49.7 liters
Sd:	363 cm ²
Sensitivity:	94.56 dB
Mms:	32.6 grams
Bl:	9.6
Le:	0.53 mH

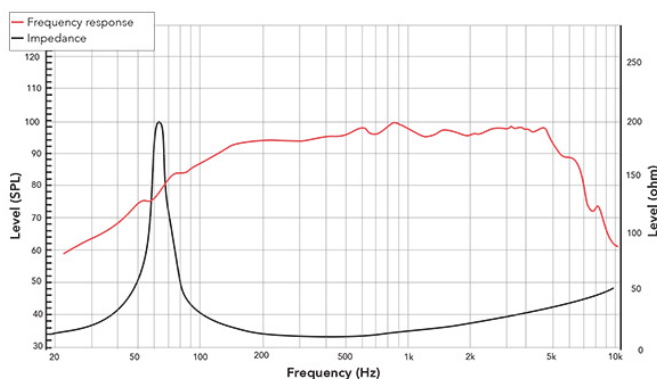
Design details	
Surround Material:	fabric
Cone material:	Paper CF
Spider:	Nomex
Plate thickness:	8 mm
Overall diameter:	262 mm
Bolt circle diameter:	246 mm
Baffle cutout dia.:	230 mm
Mounting holes:	8
Depth:	111.5 mm
Net weight:	1.97 kg

Ordering code:

DR-10-007-8R-B2-C0001

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

