

8" 81NPM-1

Midrange



Key features:

- EXTENDED FREQUENCY RESPONSE

- 2 DEMODULATION RINGS
POWERFUL MOTOR STRUCTURE

- DESIGNED FOR 2-WAY AND MULTI-WAY SPEAKER SYSTEMS

Design notes:

The 81NPM was designed for good reproduction of voice. With an extended low-frequency response, this mid-woofer is highly suitable for two-way and multi-way systems. It's high power handling capabilities extend the ideal usage as a mid-range driver in line-array systems. The 81NPM uses a lightweight half-pressed paper cone reinforced by our proprietary cone treatment, which also works as weatherization protection. The used high-quality components

ensure long-lasting performance even in high powered applications. The chosen material combination provides remarkable strength, high efficiency and sustained output under extreme conditions.

Power Handling

The voice coil sports Kapton former material capable of withstanding peak temperatures above 300°C, well beyond the thermal

requirements of modern audio systems. Former strength provides the ideal transfer of power between the voice coil and the cone assembly and assists in reducing distortion artifacts. By combining this material with state of the art adhesives and our winding voice coil technology, the 81NPM delivers incredibly high performance.

Specifications:

General specs	
Nominal Diameter:	8 "
Rated Impedance:	8 ohm
Power handling	
AES Power:	200 watts
Program Power:	400 watts
Peak Power:	800 watts
Voice Coil	
Diameter:	76.2 mm
Winding wire:	CCAW
Former:	Glass Fiber
Winding height:	22.5 mm

T/S Parameters	
Resonant frequency:	72 Hz
Re:	5.2 ohm
Qes:	0.34
Qms:	7.97
Qts:	0.33
Vas:	10.3 liters
Sd:	219 cm ²
Sensitivity:	93 dB
Mms:	40.5 grams
Bl:	16.7
Le:	0.5 mH

Design details	
Surround Material:	fabric
Cone material:	Paper GF
Spider:	Nomex
Plate thickness:	10.5 mm
Overall diameter:	210 mm
Bolt circle diameter:	195.5 mm
Baffle cutout dia.:	186.88 mm
Mounting holes:	8
Depth:	101.3 mm
Net weight:	3.2 kg

Ordering codes:

DR-8-009-8R-B2-C0001

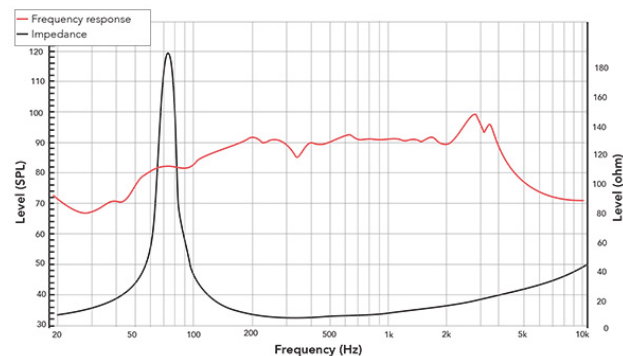
Legacy code: 81NPMX8-263

Recone kits:

RC81NPMX8-263

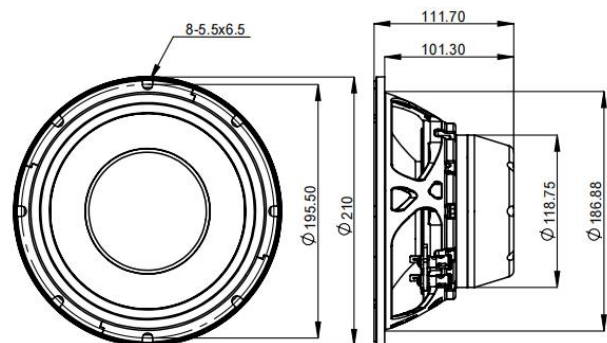
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



info@redcatt.net

www.redcatt.net