

Neodymium Mid-bass Woofer

Ordering code: 10NPM-055

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
825 watts	98.5 dB	60 Hz	50 Hz - 3,000 Hz	3" 1in/1out	CCAW	Paper CF / Fabric	Neodymium

The 10NPM is a high efficiency, (98.5 dB 1watt / 1 meter) 10-inch mid bass woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts.- The 10NPM 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 an excursion linearity of 7.5mm.

Magnetic Circuit

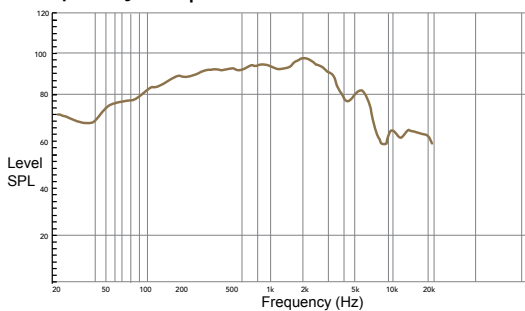
REDCATT engineers have developed a lightweight, inside-neodymium slug based magnetic circuit capable of delivering the highest level of performance providing a consistent, high integrity magnetic flux gap, ultra low distortion characteristic and high efficiency cooling system. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability.



General Specifications

Nominal Diameter:	250 mm (10 in.)
Rated Impedance:	8 ohm
Power Handling:	
AES Power:	550 Watts
Power Compression @-10dB	0.7dB
Power Compression @-10dB	1.5dB
Power Compression @Max Power	2.2dB
Maximum Recommended Xover Freq.:	2,500 Hz
Recommended Enclosure Volume:	4 - 30 Liters
Cone Design:	Exp. Gmtry, Redcatt Cell.
Front Plate Thickness:	10.5mm
Winding Height:	18.6mm
Fs	60 Hz
Re	4.73 Ohm
Sd	320 cm ² (49.6 in. ²)
Qms	8
Qes	0.29
Qts	0.28
Vas	29 Liters
Mms	49 g
BL product (force factor)	16.7 Tm
Peak to peak displacement (mm)	6.5
Le (mH @1kHz)	0.9
Overall diameter	261 mm (10.3 in.)
No. of mounting holes	8
Bolt circle diameter	245 mm (9.6 in.)
Front mount baffle cutout dia.	230mm (8.8 in.)Nominal
Rear mount baffle cutout diameter	232 mm (9.1 in.)Nominal
Total depth	113 mm (4.4 in.)
Flange and gasket thickness	13 mm (0.5 in.)
Net weight	2.9 kg (6.4 lbs.)
Shipping weight	3.5 kg (7.7 lbs.)
Packing Dimensions	330x330x160mm(13x13x6.3 in.)

Frequency Response



Frequency response measurement with transducer mounted in a 40 liter vented enclosure tuned to 65Hz

Impedance Response

