

18" 181NPW

Sub-woofer



Key features:

- 5.3" DIAMETER VOICE COIL, HIGH POWER HANDLING
- IMPROVED COIL AND MAGNET AIR-VENTILATION SYSTEM, HIGH TEMP. CAPABLE VOICE COIL WINDING
- CARBON FIBER REINFORCED PAPER CONE, TRIPLE SILICONE SPIDER

Design notes:

The 181NPW is a high efficiency, (95 dB 1 watt / 1 meter) 18-inch woofer with incredibly linear frequency response characteristics, extreme high power handling capability while generating low harmonic distortion artifacts. The 181NPW uses a lightweight carbon fiber loaded cone assembly along with a high excursion triple roll constant geometry surround. This combination provides remarkable strength, high efficiency

and a peak to peak maximum excursion of 30.5mm.

Power Handling

At the core of the 181NPW is it's voice coil technology featuring a composite Polyimide former material capable of withstanding peak temperatures in excess of 350C, well beyond the thermal requirements of modern professional

audio systems. The 181NPW delivers incredible performance.

REDCATT has implemented a triple layer/silicone spider design to ensure long term shape memory, consistency and diminish anomalies associated with spider deterioration.

Specifications:

General specs	
Nominal Diameter:	18 "
Rated Impedance:	4 ohm
Power handling	
AES Power:	1500 watts
Program Power:	3000 watts
Peak Power:	6000 watts
Voice Coil	
Diameter:	134.6 mm
Winding wire:	Copper
Former:	Glass Fiber
Winding height:	32.8 mm

T/S Parameters	
Resonant frequency:	28 Hz
Re:	3.2 ohm
Qes:	0.25
Qms:	15.8
Qts:	0.25
Vas:	167.7 liters
Sd:	1225.4 cm ²
Sensitivity:	94.8 dB
Mrms:	391.2 grams
Bl:	29.7
Le:	1.76 mH

Design details	
Surround Material:	fabric
Cone material:	Paper CF
Spider:	Nomex
Plate thickness:	15 mm
Overall diameter:	468 mm
Bolt circle diameter:	442 mm
Baffle cutout dia.:	426 mm
Mounting holes:	8
Depth:	210 mm
Net weight:	13.9 kg

Ordering codes:

DR-18-006-4R-B2-C0001

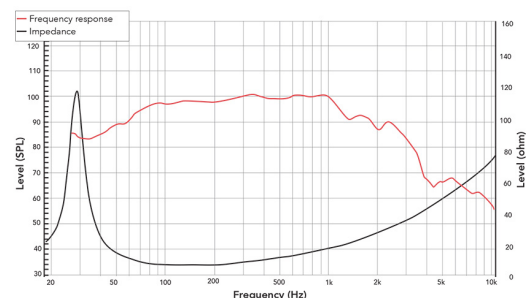
Legacy code: 181NPWX4-099

Recone kits:

RC181NPWX4-099

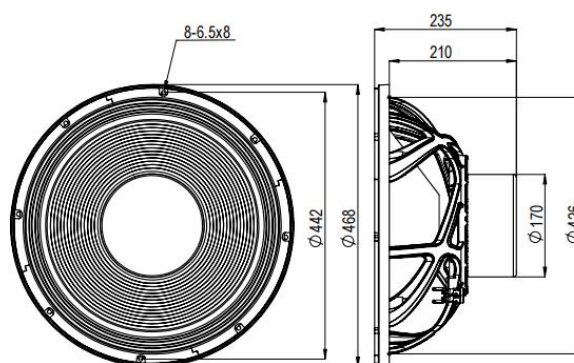
In many cases REDCATT produces 4, 8 and 16 ohm versions — indicate what impedance you need in your request.

Frequency response & Impedance



Frequency response measured on IEC baffle

2D drawing



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