

# 40NFR

- Ideal for use in closed, vent port or passive-radiator applications where the full range of frequency response is desired and where sizeable amount of low frequency is desired.

**APPLICATION:**

**REDCAT**<sup>®</sup>

## Neodymium Full Range

Ordering code: 40NFR-223

Cont. Power	Sens.	Fs	Freq. Range	VC Dia.	VC Wire	Cone/Surround/Dome	Magnet type
60 watts	91 dB	105 Hz	90 Hz - 20,000 Hz	0.8" 1out	CCA	Fiber / Rubber	Neodymium

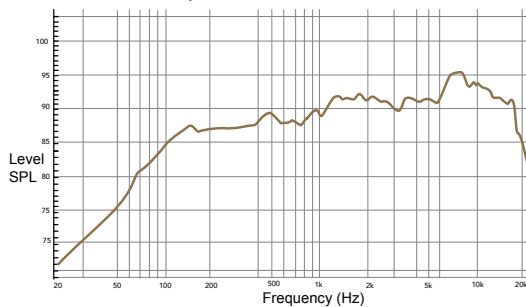
The 40NFR is a very high efficiency, (91dB 1watt / 1 meter) 4-inch full range speaker with linear frequency response characteristics and high power handling capability while generating low harmonic distortion artifacts. The 41NFR uses a unique exponential cone, made off very lightweight glass-carbon fiber woven fabric, along with a NBR single roll geometry surround. The combination provides remarkable strength, high efficiency and sustained output under extreme conditions.

### Magnetic circuit design

REDCATT engineers have developed neodymium based magnetic circuit, capable of delivering the highest level of performance, providing a consistent, high integrity magnetic flux gap, low distortion characteristic. The magnetic circuit design is optimized to generate the minimum amount of flux modulation, providing exceptional stability. The compact size of the magnetic circuit ensures the speaker can fit in tight space of modern audio product designs.

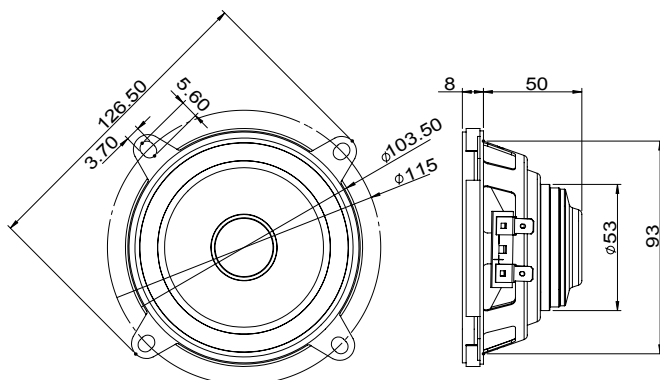
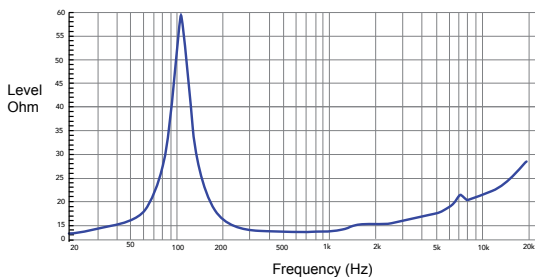


### Frequency Response



Frequency response measurement with mounted in sealed 1.5 liter enclosure tuned to 90Hz

### Impedance Response



### General Specifications

Nominal Diameter:	101.6 mm (4 in.)
Rated Impedance:	8 ohm
Power Handling:	
AES Power:	30 Watts
Power Compression @-10dB	0.7dB
Power Compression @-10dB	1.0dB
Power Compression @Max Power	1.9dB
Maximum Recommended Xover Freq.:	--- N/A ---
Recommended Enclosure Volume:	1 - 4.0 Liters
Cone Design:	Str. Gmtry, glass-carbon fiber
Front Plate Thickness:	4 mm
Winding Height:	4.8 mm
Fs	105 Hz
Re	6.5 Ohm
Sd	58.1 cm <sup>2</sup>
Qms	4.8
Qes	0.70
Qts	0.65
Vas	2.5 Liters
Mms	4.2 g
BL product (force factor)	5.6 Tm
Peak to peak displacement (mm)	7 mm
Le (mH @1kHz)	0.18
Overall diameter	103.5 mm
No. of mounting holes	4
Bolt circle diameter	115 mm
Front mount baffle cutout dia.	93 mm Nominal
Rear mount baffle cutout diameter	100 mm Nominal
Total depth	58 mm (2.28 in.)
Flange and gasket thickness	--- N/A ---
Net weight	0.27 kg
Shipping weight	--Industrially packed--
Packing Dimensions	--Industrially packed--

