

Code: 21XR8-347A

Sub-Woofer/21inch/Neo/Paper/1500W/8ohm

KEY FEATURES

- ✓ linear cone excursion 60mm peak TO peak !!
- ✓ unparallel low distortion at low frequencies
- ✓ patented design, innovative magnetic structure & venting system

QUICK SPECS

Impedance	Program Power
8 Ω	3600 W
Sensitivity	Fs
95.70 dB	32.30 Hz
Magnet	Voice Coil
Neodymium	134.6 mm

 2D Drawing

 3D Model (STEP)

Design Notes

The 21XR is a high efficiency, (96 dB 1watt / 1 meter) 21-inch woofer with incredibly linear frequency response characteristics. Our new and patented ground up motor design is a new approach to high-excursion woofers. The voice coil winding is always in the magnetic gap that is extremely wide. This feature ensures extremely low distortion across whole working range of this unique driver.

Motor Design

The magnetic design incorporates large neodymium magnets placed along the voice coil winding. This has allowed us to push the cone excursion to 50mm peak to peak. Unique gap venting ensures good air circulation and greatly improves the reliability of this driver. We have also developed a new technique for manufacturing deep copper caps that are implemented in this design and covering the whole voice coil movement..

The design further utilizes triple, uncommonly large, spiders, spaced with spacers, hot-pressed tinsel wires onto the top spider, reinforced cone edge, reinforced surround to cone joint,

Specifications

GENERAL SPECS

Nominal Diameter	21"
Rated Impedance	8 Ohm
Magnet	Neodymium
Basket Material	Aluminum

VOICE COIL

Diameter	134.6 mm
Winding Wire	Copper
Former	Glass Fiber
Winding Height	21 mm

POWER HANDLING

AES Power	1800 W
Continuous Power	3600 W
Peak Power	7200 W

T/S PARAMETERS

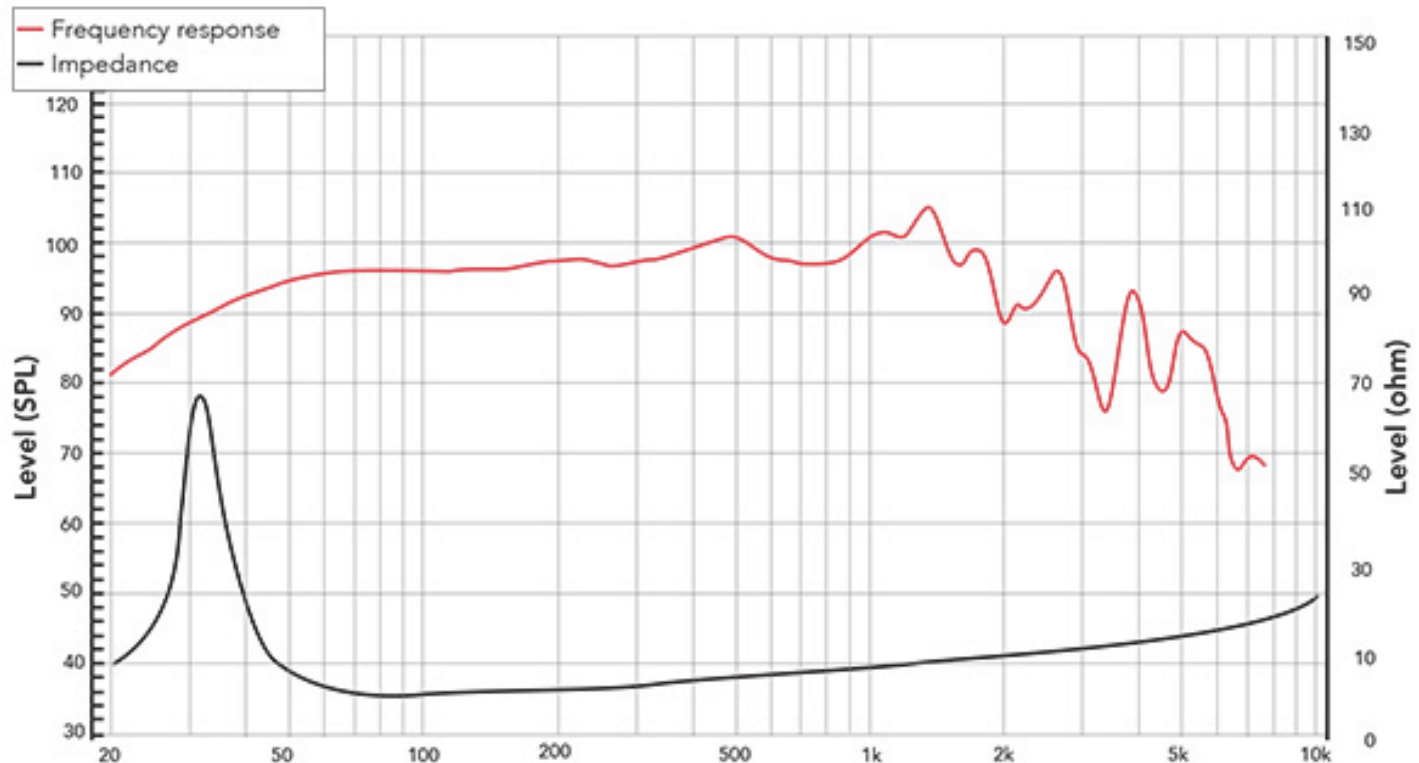
Resonant Frequency (Fs)	32.30 Hz
Re	4.50 Ω
Qes	0.510
Qms	16.79
Qts	0.500
Vas	194.45 liters
Sd	1662.00 cm ²
Mms	488.58 grams
Rms	5.90 mN
Cms	0.0500 ms
Bl	29.37 Tm
Le	0.650 mH
Sensitivity	95.70 dB

Surround Material	Paper CF	Product Code	Z11RXS-047A
Cone/Dome Material	Paper CF		
Spider	Nomex		
T-Plate	66.66 mm		
Xmax (peak)	22.83 mm		
Xmech	89.49 mm		
Overall Diameter	549.00 mm		
Bolt Circle Diameter	525.00 mm		
Baffle Cutout Dia.	503.00 mm		
Mounting Holes	8		
Depth (flange to rear)	287.00 mm		
Net Weight	23.80 kg		

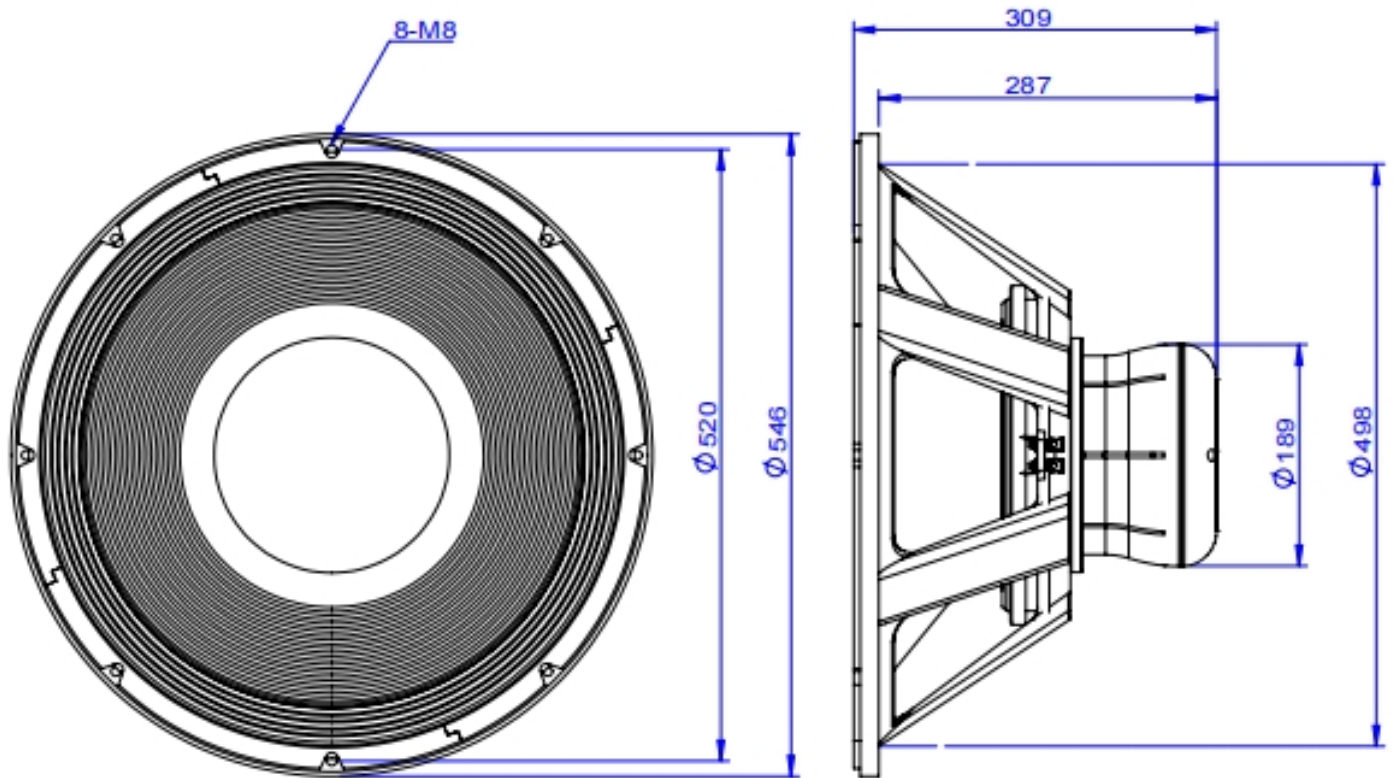
DOWNLOADS

 2D Drawing (PDF)  3D Model (STEP)

Frequency Response & Impedance



2D Drawing



Enclosure Recommendations

Recommended enclosure alignments (bass reflex):

- 105 liters tuned to 37 Hz: high output, strong mid-bass, reduced excursion; -3 dB approx. 34 Hz, HP filter 29 Hz
- 120 liters tuned to 34 Hz: balanced response, general-purpose (recommended); -3 dB approx. 31 Hz, HP filter 24 Hz
- 145 liters tuned to 31 Hz: extended low-frequency, requires HP filter protection; -3 dB approx. 26 Hz, HP filter 20 Hz

Frequently Asked Questions

What enclosure is recommended for the 21XR?



What applications is the 21XR suited for?



What are the power and sensitivity specs of the 21XR?



Related Products



LF 21"
21NPW



LF 18"
181NPW



LF 18"
18XR



LF 18"
181XR



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