

PD.124NR1

BASS/ MID RANGE DRIVER



12" / 304.8 mm

NOMINAL DIAMETER

1000 W (A.E.S.)

POWER HANDLING

99 dB

SENSITIVITY (1W/ 1m)

45 Hz - 4 kHz

FREQUENCY RESPONSE

4.0" / 101.6 mm

VOICE COIL DIAMETER

8.50 mm Xmax

MAXIMUM LINEAR EXCURSION

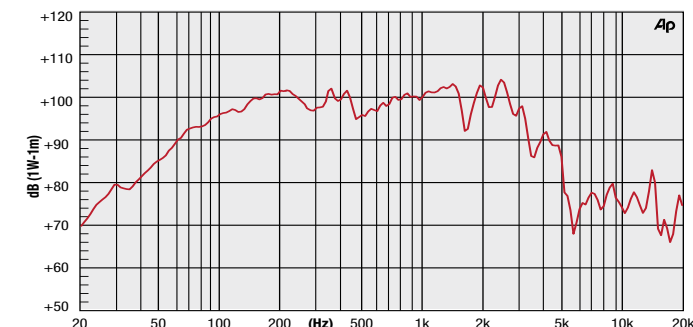


FEATURES:

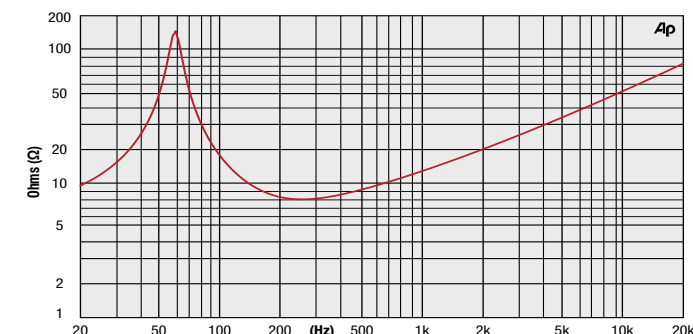
- Radial neodymium motor structure.
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Forced air cooling vented voice coil gap.
- Aluminium demodulation ring.
- Dual spider configuration with silicone based damping control.
- Rear aluminium heat sink.

The PD.124NR1 is intended as a high power mid bass driver in multiway systems. The unit can also be used as a dedicated woofer in bass reflex and horn loaded designs. The optimised radial neodymium motor system allows more efficient management of the magnetic flux. Forced air venting and rear aluminium base plate keeps the motor temperature under control and reduces power compression to a minimum. The unit features a 4-inch, high temperature, CCAW voice coil capable of handling 1000 W (AES). The PD.154NR1 exhibits an average sensitivity of 99dB across its working band and will produce an SPL of 126.5 dB in an 45Ltr ported enclosure tuned to 60Hz.

FREQUENCY RESPONSE AND IMPEDANCE CHARTS



Half space response measured in a 950 Litre sealed enclosure.



*1 Power compression is the reduction of sensitivity at the specified power. Higher power ratings do not necessarily give a proportionate increase in SPL therefore the maximum SPL of the driver may significantly exceed that of other manufacturers with high power ratings.
** Distortion is measured at 10% of the rated power (AES Standard).

1. AES Standard (55 to 550 Hz) Program 1000 Watts.

2. AES Recommended Practice.

3. Thiele - Small Parameters follow a 800 Watt preconditioning period.

Please note that frequency response measurements are supplied for comparison purposes only and are not a measure of the low frequency performance which may be achievable in a fully optimised system.

GENERAL SPECIFICATIONS

Nominal Diameter	12" / 304.8 mm
Voice Coil Diameter	4.0" / 101.6 mm
Available Impedances	8 Ohm
Power Rating ¹² *	1000 W (A.E.S.)
Peak Power (6dB Crest Factor)*	4000 W (A.E.S.)
Sensitivity (1W - 1m)*	99 dB
Frequency Range	45 Hz - 4 kHz
Recommended Enclosure Volume	25 - 70 Litres
Resonance	58 Hz
Voice Coil Winding Depth	22.00 mm / 0.87"

Magnet Gap Depth	11.0 mm / 0.43"
Flux Density	1.25 Tesla
Magnet Material	Neodymium
Voice Coil Material	Copper Clad Aluminium
Former Material	Glass Fibre
Dust Dome Material	Solid Paper
Suspension Material	Poly Cotton / Silicone Damping
Cone / Surround Material	Paper / M Roll Poly Cotton

THIELE SMALL Parameters (8 Ω MODEL)³

Fs	58 Hz	Mms	60.00 g
Re	6.1 Ω	Sd	540 cm ²
Qms	8.20	Cms	119.00 μm/N
Qes	0.370	BL	19.20 T/m
Qts	0.350	Xmax	8.50 mm
Le (@ 1 kHz)	2.60 mH	Vd	0.590 Litres
Le (@ 10 kHz)	0.750 mH	Ref. Efficiency	2.52%
Vas	49 Litres	EBP	156.76 Hz

DIMENSIONS

Overall Diameter	331.0 mm
Width Across Flats	320 mm
Flange Height	10.0 mm
Depth (Excl. Flange)	146.00 mm
Magnet Diameter	138 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	280.0 mm
Outer Bolt Circle	x4 M6 on 318 mm PCD

WEIGHT

Nett Weight	7.00 Kg / 15.43 lb
Shipping Weight	7.50 Kg / 16.53 lb