

PD.155NR1

BASS/ LOW-MID RANGE DRIVER



PRELIMINARY SPECIFICATIONS

15" / 381 mm

NOMINAL DIAMETER

1000 W (A.E.S.)

POWER HANDLING

98.5 dB

SENSITIVITY (1W/ 1m)

45 Hz - 2 kHz

FREQUENCY RESPONSE

5.0" / 127 mm

VOICE COIL DIAMETER

12.00 mm Xmax

MAXIMUM LINEAR EXCURSION

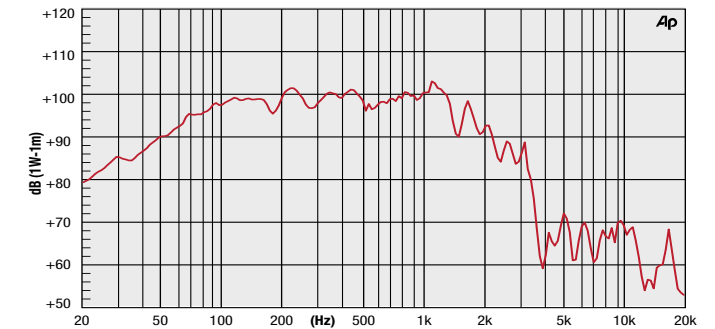


FEATURES:

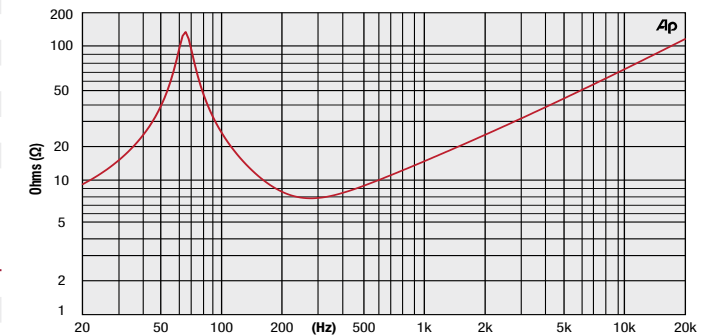
- Radial neodymium motor structure.
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Forced air cooling vented voice coil gap.
- Aluminium demodulation ring.
- Rear aluminium heat sink.

The PD.155NR1 is intended as a dedicated woofer in bass reflex and horn loaded designs. The unit is also capable as a high power upper bass driver in multiway systems. 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 5-inch, high temperature, copper voice coil capable of handling 1000W (AES) the PD.155NR1 exhibits an average sensitivity of 98.5dB across its working band.

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 (45 to 450 Hz) Program 800 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	15" / 381 mm	Magnet Gap Depth	13.0 mm / 0.51"
Voice Coil Diameter	5.0" / 127 mm	Flux Density	1.18 Tesla
Available Impedances	4 Ohm / 8 Ohm / 16 Ohm	Magnet Material	Neodymium
Power Rating ^{12*}	1000 W (A.E.S.)	Voice Coil Material	Copper
Peak Power (6dB Crest Factor)*	4000 W (A.E.S.)	Former Material	Glass Fibre
Sensitivity (1W - 1m)*	98.5 dB	Dust Dome Material	Solid Paper
Frequency Range	45 Hz - 2 kHz	Suspension Material	Poly Cotton
Recommended Enclosure Volume	75 - 200 Litres	Cone / Surround Material	Paper / M Roll Poly Cotton
Resonance	37 Hz		
Voice Coil Winding Depth	30.50 mm / 1.20"		

THIELE SMALL Parameters (8 Ω MODEL)³

Fs	37 Hz	Mms	154.00 g
Re	5.4 Ω	Sd	895 cm ²
Qms	6.10	Cms	123.20 μm/N
Qes	0.237	BL	28.60 T/m
Qts	0.228	Xmax	12.00 mm
Le (@ 1 kHz)	2.35 mH	Vd	0.980 Litres
Le (@ 10 kHz)	1.230 mH	Ref. Efficiency	2.77%
Vas	140 Litres	EBP	156.12 Hz

DIMENSIONS

Overall Diameter	408.3 mm
Width Across Flats	458.73 mm
Flange Height	11.0 mm
Depth (Excl. Flange)	210.00 mm
Magnet Diameter	168 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	415.0 mm
Outer Bolt Circle	x6 M8 on 394 mm PCD

WEIGHT

Nett Weight	10.00 Kg / 22.05 lb
Shipping Weight	11.00 Kg / 24.25 lb