

# PD.154NR1

## BASS/ LOW MID-RANGE DRIVER



**15" / 381 mm**  
NOMINAL DIAMETER

**900 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

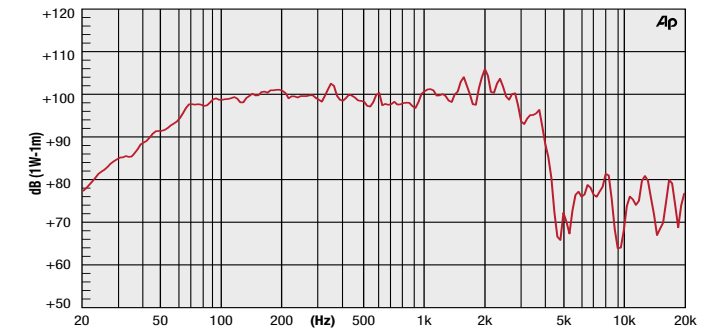


### FEATURES:

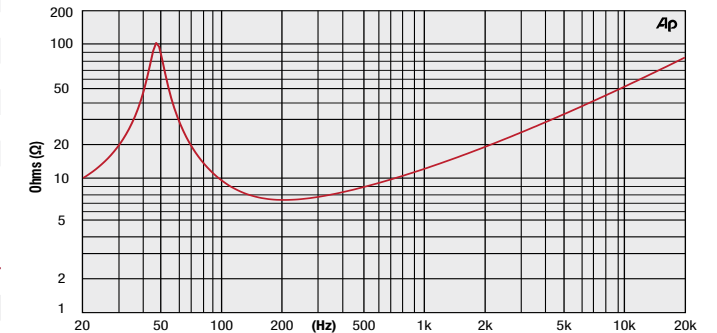
- Radial neodymium motor structure.
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Forced air cooling vented voice coil gap.
- Aluminium demodulation ring.
- Dual spider configuration with silicone based damping control.
- Rear aluminium heat sink.

The PD.154NR1 is intended as a high power upper 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 900W (AES) the PD.154NR1 exhibits an average sensitivity of 99dB across its working band and will produce an SPL of 127.5 dB in an 85Ltr ported enclosure tuned to 50Hz.

### 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 900 Watts.
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 900 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
Voice Coil Diameter	4.0" / 101.6 mm
Available Impedances	4 Ohm / 8 Ohm / 16 Ohm
Power Rating <sup>12*</sup>	900 W (A.E.S.)
Peak Power (6dB Crest Factor)*	3600 W (A.E.S.)
Sensitivity (1W - 1m)*	99 dB
Frequency Range	45 Hz - 4 kHz
Recommended Enclosure Volume	75 - 200 Litres
Resonance	46 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)<sup>3</sup>

Fs	46 Hz	Mms	84.00 g
Re	6.1 Ω	Sd	897 cm <sup>2</sup>
Qms	7.00	Cms	138.00 μm/N
Qes	0.430	BL	18.50 T/m
Qts	0.400	Xmax	8.50 mm
Le (@ 1 kHz)	1.73 mH	Vd	0.760 Litres
Le (@ 10 kHz)	0.700 mH	Ref. Efficiency	3.50%
Vas	158 Litres	EBP	106.98 Hz

### DIMENSIONS

Overall Diameter	473.6 mm
Width Across Flats	458.73 mm
Flange Height	14.0 mm
Depth (Excl. Flange)	210.00 mm
Magnet Diameter	138 mm

### MOUNTING INFORMATION

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

### WEIGHT

Nett Weight	8.00 Kg / 17.64 lb
Shipping Weight	8.40 Kg / 18.52 lb