

# PD.154NR1

BASS / LOW-MID RANGE DRIVER



**15" / 381 mm**  
NOMINAL DIAMETER

**45 Hz - 4 kHz**  
FREQUENCY RESPONSE

**4" / 101.6 mm**  
VOICE COIL DIAMETER

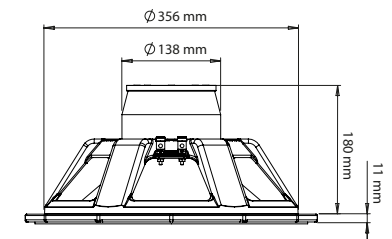
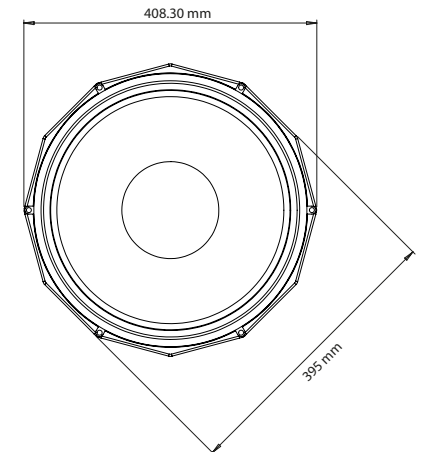
**99 dB**  
SENSITIVITY (1W/ 1m)

**900 W (A.E.S.)**  
POWER HANDLING

**8.5 mm Xmax**  
MAXIMUM LINEAR EXCURSION

- > **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 multi-way 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 900 W (A.E.S.) the PD.154NR1 exhibits an average sensitivity of 99 dB across its working band and will produce an SPL of 127.5 dB in an 85 Litre ported enclosure tuned to 50 Hz.



# PD.154NR1

## BASS / LOW-MID RANGE DRIVER



### FREQUENCY RESPONSE & IMPEDANCE CHARTS <sup>4</sup>



#### 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>1,2*</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 Material	Paper
Surround Material	M Roll Poly Cotton

#### WEIGHT

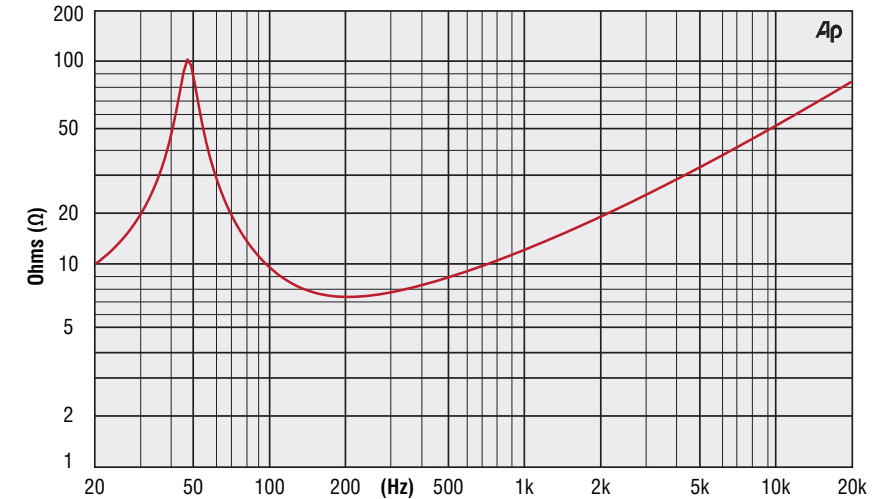
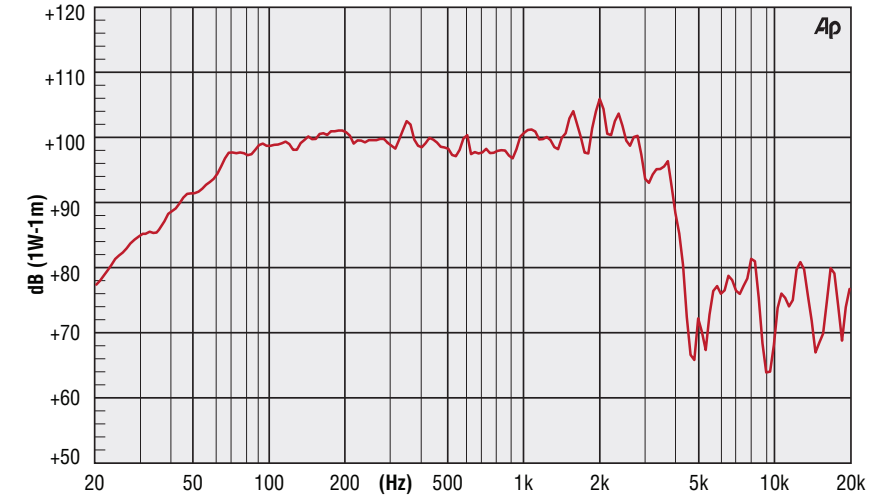
Nett Weight	8.00 kg / 17.64 lb
Shipping Weight	8.40 kg / 18.52 lb

#### THIELE SMALL PARAMETERS (8 Ω MODEL)<sup>3</sup>

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

#### DIMENSIONS & MOUNTING INFORMATION

Overall Diameter	408.3 mm
Width Across Flats	395 mm
Flange Height	11 mm
Depth (Excluding Flange)	180 mm
Magnet Diameter	138 mm
Chassis Shoulder Diameter	356 mm
Outer Bolt Circle	x6 M6 on 395 mm PCD



\* 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 (A.E.S. standard).

1. A.E.S. Standard (45 to 450 Hz) @ 900 Watts.
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 900 Watt preconditioning period verified by Klippel LSI measurement.
4. Half space response measured in a 950 Litre sealed enclosure.

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.