

SPECIFICATIONS

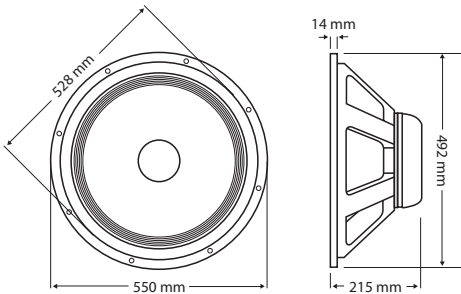
Nominal Diameter	53 cm (21")
Voice Coil Diameter	152 mm (6.08")
Nominal impedance	4,8,16 Ohms
Power Rating	1000 Watts (AES)
Sensitivity (1W/1M)	99 dB
Frequency Range	30 Hz - 100 Hz
Recommended Enclosure Volume	130 to 350 Litres
Displacement Limit (peak-peak)	38 mm (1.5")
Resonance	31 Hz
Voice Coil	Copper
Voice Coil Winding Depth	30 mm (1.2")
Magnet Gap Depth	15 mm (0.59")
Magnet Material	Neodymium
Flux Density	1.1T
Dust Dome Material	Paper
Suspension Material	Dual Fabric
Cone / Surround Material	Paper/Fabric

THIELE SMALL PARAMETERS

Fs	27 Hz
Re	5.4 Ohms
Qts	0.18
Qms	4.723
Qes	0.187
Vas	474.8 Litres
Mms	281 g
Sd	1688 cm ²
Cms	218.797 μM/N
BL	37.13 T/m
Xmax	10.5 mm
Vd	1.76 Litres
Reference Efficiency	4.81 %

MOUNTING AND SHIPPING INFORMATION

Fixing Holes	x 6 Fixing Holes M8
Nett Weight	16.30 Kg (35.14 lb.)
Shipping Weight	21.25 Kg (46.12 lb.)



The PDN.2151 is a unique high power, high efficiency cone transducer designed specifically to provide powerful and accurate sub bass frequencies with minimal distortion and power compression.

Delivers faultless low end performance in applications in which others fall by the wayside. Perfectly at home in new or refurbished horn loaded sub bass systems this unit also delivers powerful lows in reflex designs.

An outstanding drive unit since it allows designers considerably more freedom with enclosure design and specialised loading techniques without having to allow for physical characteristics or power handling limitations which are typically the result of more traditional designs.

- Heavy duty 21" cast aluminium frame with extra wide flange for increased rigidity
- Sub Woofer
- Field replaceable magnet for touring applications
- 1000Wrms
- 6" copper voice coil assembly
- Neodymium magnet
- Power compression 2dB at rated power *1
- Distortion *2 2nd Harmonic < 1 %
3rd Harmonic < 1 %
- Advanced magnetic assembly incorporating a composite alloy and steel pole piece giving a uniform and stable magnetic field, improving linear excursion and providing an efficient thermal path to dissipate the heat produced by the voice coil
- A B/L in excess of 34 T/m for fast accurate lows
- Double suspension system maintaining a pure piston action for the moving mass even when driven with the most complex programme input signals and provides additional durability against the rigours of life on the road

*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 PDN.2151 may significantly exceed that of other manufacturers with high published power ratings.

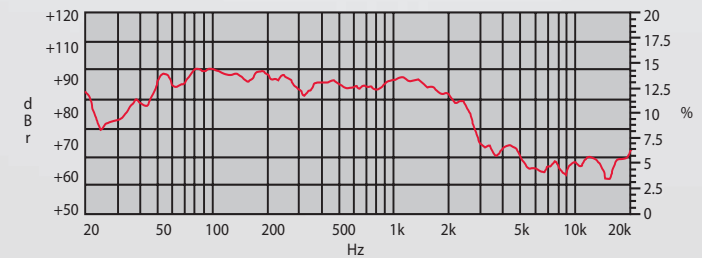
*2 Distortion is measured at 10% of the rated power (AES Standard).

PDN.2151

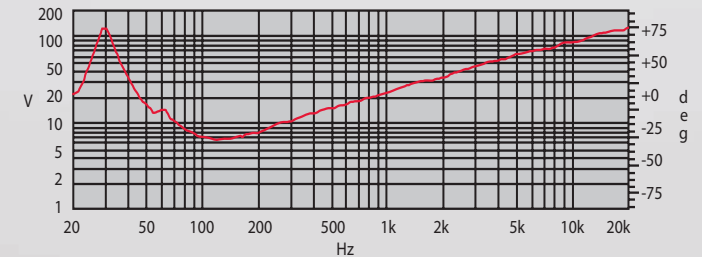


PDN.2151

FREQUENCY RESPONSE DATA:



IMPEDANCE:



Half space response measured in a 975 Litre sealed box.

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.

1. AES Standard (30 to 300 Hz) Program 2000 Watts 2. Sensitivity is derived from the sine wave response between 50 - 350 Hz at 5W/2M using Zmin. It is then scaled to represent 1W/1M. It should be noted that not all manufacturers' sensitivity figures are based on this AES Recommended Practice. 3. In less demanding applications, the crossover point may be higher. 4. Thiele - Small Parameters follow a 1000 Watt preconditioning period.