



- 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

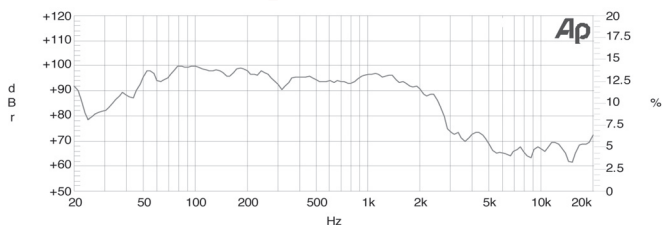
*1 Power compression is the reduction of sensitivity at the specified power. Higher power ratings do not necessarily give a proportionate increase in SPL, therefore the maximum SPL of the PDN.2151 may significantly exceed that of other manufacturers with high published power ratings.

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

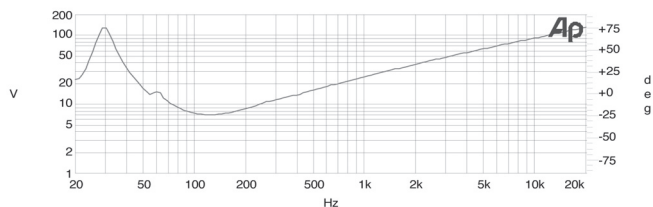
PDN.2151

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.

Response Detail



Impedance Detail



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.

Technical Specifications

Nominal Diameter	53cm (21")
Power Rating	1000 Watts
Frequency Range	30-100 Hz
Nominal Impedance	4,8,16 Ohms
Sensitivity (1W 1M)	99dB
Highest Recommended Crossover Resonance	300 Hz
Enc. Vol. Recommended	130 to 350 Litres
Effective Piston Diameter	455mm (18.2")
Displacement Limit (peak-peak)	38mm (1.5")
Voice Coil Diameter	152mm (6.08")
Voice Coil	Copper
Voice Coil Winding Height	30mm (1.2")
Voice Coil Wire Length	56.6m (186')
Magnetic Gap Depth	15mm (0.59")
Magnet Material	Neodymium
Flux Density	1.1T
Cone / Surround	Paper / Fabric

Notes

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.

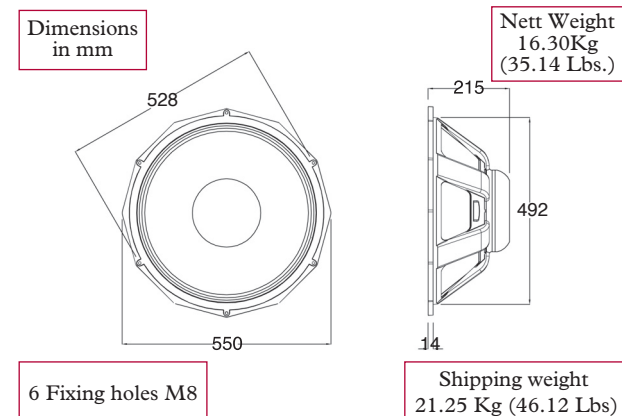
Thiele - Small Parameters

Fs	27 Hz
Revc	5.4 Ohms
Qts	0.18
Qms	4.723
Vas	474.8 Litres
Qes	0.187
Mms	281 grams
Sd	1688 cm2
Cms	0.119 mm/n
BL	37.13 Tm
Xmax	10.5 mm
Vd	1.76 Litres
No	4.81 %
Pmx	1000 Watts

Notes

4. Thiele - Small Parameters follow a 1000 Watt preconditioning period.

Mechanical Data



Precision Devices operate a policy of continuous research and development. The implementation of new materials or production methods will always equal or exceed the published specifications, which may change without notice. Details shown on this sheet are correct at time of printing. March 2008.