

PD.1850/2 | Sub Bass Driver



18" / 460 mm
NOMINAL DIAMETER

800 Watts (A.E.S.)
POWER HANDLING

98 dB
SENSITIVITY

35 Hz - 2 kHz
FREQUENCY RESPONSE

5.0" / 127 mm
VOICE COIL DIAMETER

11.05 mm Xmax

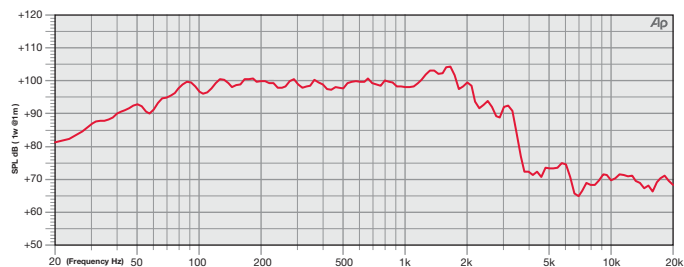


- ▶ Brand new 18" chassis design« Heavy duty cast aluminium frame for increased rigidity
- ▶ 170 oz ceramic magnet
- ▶ Power compression only 1.6dB at rated power *
- ▶ Distortion ** 2nd Harmonic < 1 % 3rd Harmonic < 1 %
- ▶ Advanced magnetic assembly incorporating a composite alloy and steel pole piece 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 31 T/m for fast accurate lows
- ▶ Double suspension system maintaining a pure piston action for the moving mass and provides additional durability against the rigours of life on the road

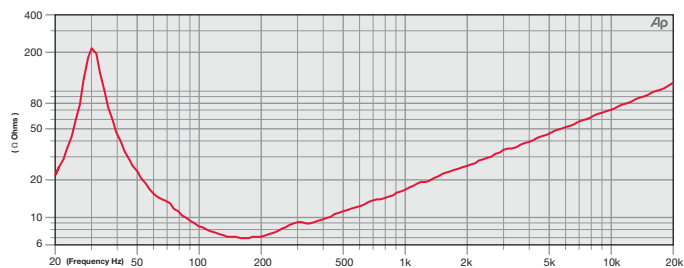
SPECIFICATIONS

Nominal Diameter	18" / 460 mm
Voice Coil Diameter	5.0" / 127 mm
Nominal Impedance	4 / 8 / 16 Ω
Power Rating	800 Watts (A.E.S.)
Peak Power (6dB Crest Factor)	3200 Watts (A.E.S.)
Sensitivity (1w - 1m)	98 dB
Frequency Range	35 Hz - 2 kHz
Recommended Enclosure Volume	90 - 220 Litres
Resonance	33 Hz
Voice Coil Winding Depth	1.1" / 28 mm
Magnet Gap Depth	0.453" / 12 mm
Magnet Weight	170 oz / 4.8 Kg
Flux Density	1.18 Tesla
Magnet Material	Ceramic
Voice Coil Material	Copper
Dust Dome Material	Paper
Suspension Material	Fabric
Cone / Surround Material	Paper / Fabric

FREQUENCY RESPONSE DATA:



IMPEDANCE:



APPLICATION NOTES:

Designed specifically to provide powerful and accurate bass frequencies with minimal distortion and power compression.

The PD.1850/2 is the optimum choice for top of the range sub bass systems where the ability to take punishment in the most demanding applications is the ultimate selection criterion.

Suitable for sound reinforcement in a variety of enclosure types since it allows enclosure designers considerably more freedom with specialised loading techniques without having to make allowances for physical characteristics or power handling limitations which are typically the result of more traditional designs. Appropriate for applications as diverse as scoop bins, conventional reflex cabinets and horn loaded systems.

*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 (35 to 350 Hz) Program 1600 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.

THEIR SMALL PARAMETERS

Fs	33.15 Hz
Re	5.22 Ω
Qts	0.24
Qms	15.42
Qes	0.24
Vas	205 litres
Mms	215 grams
Sd	1164 cm ²
Cms	107 μm
BL	31 T/m
Xmax	11.05 mm
Vd	1.28 litres
Reference Efficiency	2.88%

MOUNTING AND SHIPPING INFORMATION

Fixing Holes
x6 Fixing Holes M8

Net Weight
50.26 lb / 22.80 Kg

Shipping Weight
58.64 lb / 26.60 Kg

