

# PD.1852 | Sub Bass Driver

**18" / 460 mm**  
NOMINAL DIAMETER

**1000 Watts (A.E.S.)**  
POWER HANDLING

**98 dB**  
SENSITIVITY

**35 Hz - 2 kHz**  
FREQUENCY RESPONSE

**5.0" / 127 mm**  
VOICE COIL DIAMETER

**12 mm Xmax**

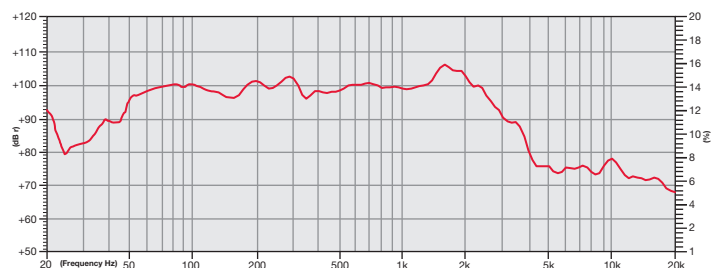


- ▶ New 18" chassis design
- ▶ 170 oz. ceramic magnet
- ▶ Power compression only 1.7dB at rated power \*
- ▶ Distortion \*\* 2nd Harmonic < 1 % 3rd Harmonic < 1 %
- ▶ Advanced magnetic assembly incorporating a composite alloy and steel pole piece giving a uniform and stable magnetic field, improving linear excursion and providing an efficient thermal path to dissipate the heat produced by the voice coil
- ▶ A B/L of 32 T/m for fast accurate lows
- ▶ Dual silicone suspension

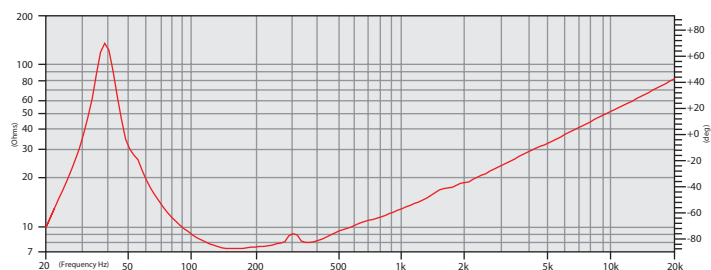
### SPECIFICATIONS

Nominal Diameter	18" / 460 mm
Voice Coil Diameter	5.0" / 127 mm
Nominal Impedance	4 / 8 / 16 Ω
Power Rating	1000 Watts (A.E.S.)
Peak Power (6dB Crest Factor)	4000 Watts (A.E.S.)
Sensitivity (1w - 1m)	98 dB
Frequency Range	35 Hz - 2 kHz
Recommended Enclosure Volume	90 - 220 Litres
Resonance	34 Hz
Voice Coil Winding Depth	1.14" / 29 mm
Magnet Gap Depth	0.453" / 12 mm
Magnet Weight	170 oz / 4.81 Kg
Flux Density	1.18 Tesla
Magnet Material	Ceramic
Voice Coil Material	Copper
Dust Dome Material	Paper
Suspension Material	Dual silicone suspension
Cone / Surround Material	Paper / HGBC

FREQUENCY RESPONSE DATA:



IMPEDANCE:



### APPLICATION NOTES:

Designed specifically to provide powerful and accurate bass frequencies with minimal distortion and power compression. The PD.1852 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 1000 Watt preconditioning period.

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.

### THEIR SMALL PARAMETERS

Fs	40 Hz
Re	5.871 Ω
Qts	0.33
Qms	11.18
Qes	0.34
Vas	129.1 litres
Mms	242 grams
Sd	1164 cm <sup>2</sup>
Cms	67.09 μm/N
BL	32 T/m
Xmax	12 mm
Vd	1.397 litres
Reference Efficiency	2.34%

### MOUNTING AND SHIPPING INFORMATION

Fixing Holes  
x6 Fixing Holes M8 x8  
Concealed M8

Nett Weight  
52.47 lb / 23.8 Kg

Shipping Weight  
56.8 lb / 25.8 Kg

