

# PD.1852

| SUB BASS DRIVER



**18" / 460 mm**

NOMINAL DIAMETER

**1000 w (A.E.S.)**

POWER HANDLING

**98 dB**

SENSITIVITY

**35 Hz - 2 kHz**

FREQUENCY RESPONSE

**5.0" / 127 mm**

VOICE COIL DIAMETER

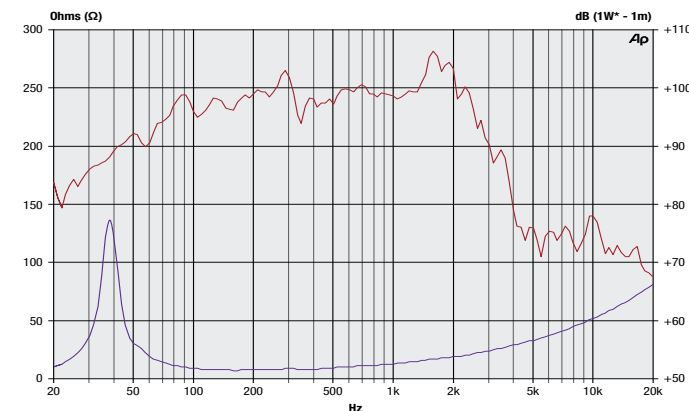
**12 mm Xmax**



## PRODUCT FEATURES

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- ▶ Power compression only 1.7dB at rated power.
- ▶ A B/L in excess of 30 T/m.
- ▶ Double suspension.
- ▶ Appropriate for applications as diverse as scoop bins, conventional reflex cabinets and horn loaded systems.
- ▶ Silicone suspension system.
- ▶ Increased excursion over an 1850/2.
- ▶ Warm tonal sound.

## FREQUENCY RESPONSE AND IMPEDANCE CURVE



\*2.83V. Half space response measured in a 975 Litre sealed enclosure.

## SPECIFICATIONS

Nominal Diameter	460 mm / 18"
Voice Coil Diameter	127 mm / 5.0"
Available Impedances	4 Ohms/ 8 Ohms/ 16 Ohms
Power Rating	1000 w (A.E.S.)
Peak Power (6dB Crest Factor)	4000 w (A.E.S.)
Sensitivity (1w - 1m)	98 dB
Frequency Range	35 Hz - 2 kHz
Recommended Enclosure Volume	90 -220 Litres
Resonance	41.85 Hz
Voice Coil Winding Depth	29 mm / 1.14"
Magnet Gap Depth	12 mm / 0.47"
Flux Density	1.18 Tesla
Magnet Material	Ceramic
Voice Coil Material	Copper
Former Material	Glass Fibre
Dust Dome Material	Paper
Suspension Material	Dual silicone
Cone / Surround Material	Paper / HGBC

## THIELE SMALL PARAMETERS (8Ω MODEL)

Fs	41.85 Hz	Vas	120.38 litres
Re	5.18 Ω	Mms	231.21 g
Qms	11.1	Sd	1164.16 cm <sup>2</sup>
Qes	0.34	Cms	63 μm/N
Qts	0.33	BL	30.47 T/m
Le	0.9 mH	Xmax	12 mm
L2	1.83 mH	Vd	1.397 litres
R2	5.41 Ω	Ref. Efficiency	2.34 %

\*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.

1. A.E.S. Standard (35 to 350 Hz).
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 1000 Watt A.E.S. 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.

## DIMENSIONS

Overall Diameter	474 mm
Width Across Flats	459 mm
Flange Height	14.5 mm
Depth (Excl. Flange)	178 mm
Magnet Diameter	280 mm

## MOUNTING INFORMATION

Chassis Shoulder Diameter	414.5 mm
Outer Bolt Circle	6x M8 on 455 mm PCD
Inner Bolt Circle	N/A

## WEIGHT

Nett Weight	23.8 Kg / 52.47 lb.
Shipping Weight	25.8 Kg / 56.88 lb.