

PD.1850/2 | SUB BASS DRIVER



18" / 460 mm
NOMINAL DIAMETER

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

98 dB
SENSITIVITY

35 Hz - 2 kHz
FREQUENCY RESPONSE

5.0" / 127 mm
VOICE COIL DIAMETER

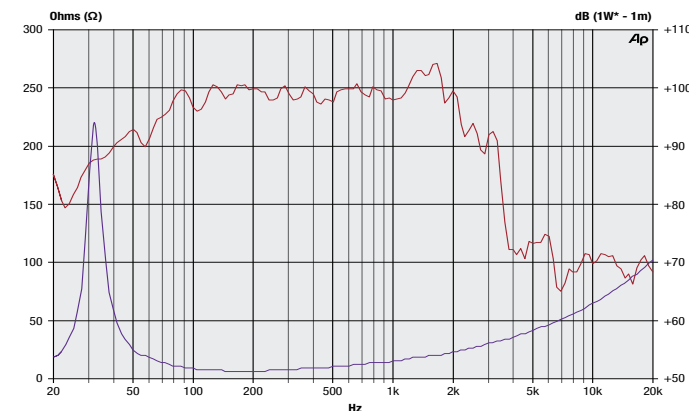
11.05 mm Xmax



PRODUCT FEATURES

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- ▶ Power compression only 1.6dB 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.

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	800 w (A.E.S.)
Peak Power (6dB Crest Factor)	3200 w (A.E.S.)
Sensitivity (1w - 1m)	98 dB
Frequency Range	35 Hz - 2 kHz
Recommended Enclosure Volume	90 - 220 Litres
Resonance	33.15 Hz
Voice Coil Winding Depth	28 mm / 1.1"
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	Fabric
Cone / Surround Material	Paper / Fabric

THIELE SMALL PARAMETERS (8Ω MODEL)

Fs	33.15 Hz	Vas	203.84 litres
Re	5.22 Ω	Mms	215.24 g
Qms	15.42	Sd	1164.16 cm ²
Qes	0.24	Cms	107 μm/N
Qts	0.24	BL	30.99 T/m
Le	1.33 mH	Xmax	11.05 mm
L2	2.45 mH	Vd	1.28 litres
R2	5.3 Ω	Ref. Efficiency	2.88 %

*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 800 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)	175 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	22.8 Kg / 50.26 lb.
Shipping Weight	26.6 Kg / 58.64 lb.