



PD.185C003

SUB BASS DRIVER



18" / 457.2 mm

NOMINAL DIAMETER

1500 W (A.E.S.)

POWER HANDLING

99 dB

SENSITIVITY (1W/ 1m)

30 Hz - 500 Hz

FREQUENCY RESPONSE

5.0" / 127 mm

VOICE COIL DIAMETER

11.00 mm Xmax

MAXIMUM LINEAR EXCURSION

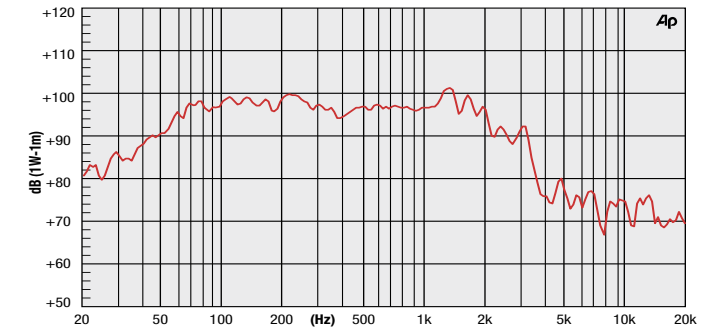


FEATURES:

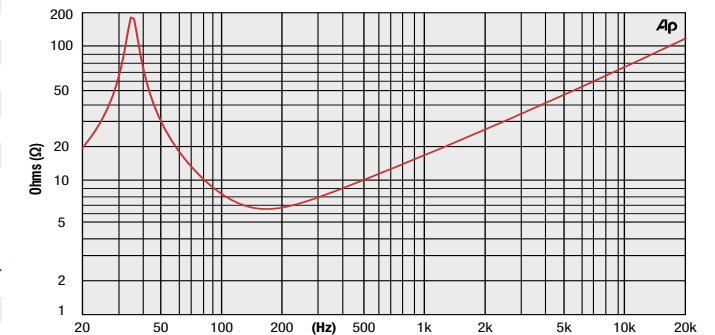
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Vented motor structure for improved control of power compression.
- 50 mm peak to peak travel.
- 31 T/m BL.
- Dual suspension assembly.
- Inside/ outside voice coil windings.

The PD.185C003 is ideally suited to applications where high power handling, long excursion and perfect linearity is required. Ideal for bass reflex and horn loaded enclosure systems where a high punch and low sub is required. The robust mechanical design and construction makes this unit an ideal choice for high power high SPL bass applications.

FREQUENCY RESPONSE AND IMPEDANCE CHARTS



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



*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 (30 to 300 Hz) @ 1000 Watts.
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 1000 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.

GENERAL SPECIFICATIONS

Nominal Diameter	18" / 457.2 mm	Magnet Gap Depth	12.0 mm / 0.47"
Voice Coil Diameter	5.0" / 127 mm	Flux Density	1.25 Tesla
Available Impedances	4 Ohm / 8 Ohm / 16 Ohm	Magnet Material	Y35 Ferrite
Power Rating ^{12*}	1500 W (A.E.S.)	Voice Coil Material	Copper (Inside / outside winding)
Peak Power (6dB Crest Factor)*	6000 W (A.E.S.)	Former Material	Glass Fibre
Sensitivity (1W - 1m)*	99 dB	Dust Dome Material	Solid Paper
Frequency Range	30 Hz - 500 Hz	Suspension Material	Poly Cotton
Recommended Enclosure Volume	90 - 250 Litres	Cone / Surround Material	Paper / M Roll Poly Cotton
Resonance	33 Hz		
Voice Coil Winding Depth	28.00 mm / 1.10"		

THIELE SMALL Parameters (8 Ω MODEL)³

Fs	33 Hz	Mms	197.00 g
Re	5.4 Ω	Sd	1164 cm ²
Qms	10.60	Cms	118.00 μm/N
Qes	0.229	BL	31.50 T/m
Qts	0.240	Xmax	11.00 mm
Le (@ 1 kHz)	2.80 mH	Vd	1.274 Litres
Le (@ 10 kHz)	1.360 mH	Ref. Efficiency	3.40%
Vas	224 Litres	EBP	144.10 Hz

DIMENSIONS

Overall Diameter	473.0 mm
Width Across Flats	459 mm
Flange Height	14.5 mm
Depth (Excl. Flange)	194.00 mm
Magnet Diameter	280 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	415.0 mm
Outer Bolt Circle	x6 M6 on 456 mm PCD

WEIGHT

Nett Weight	22.50 kg / 49.60 lb
Shipping Weight	23.30 kg / 51.37 lb