



PD.185C001

SUB BASS DRIVER



18" / 457.2 mm

NOMINAL DIAMETER

1200 W (A.E.S.)

POWER HANDLING

97 dB

SENSITIVITY (1W/ 1m)

30 Hz - 300 Hz

FREQUENCY RESPONSE

5.0" / 127 mm

VOICE COIL DIAMETER

10.50 mm Xmax

MAXIMUM LINEAR EXCURSION

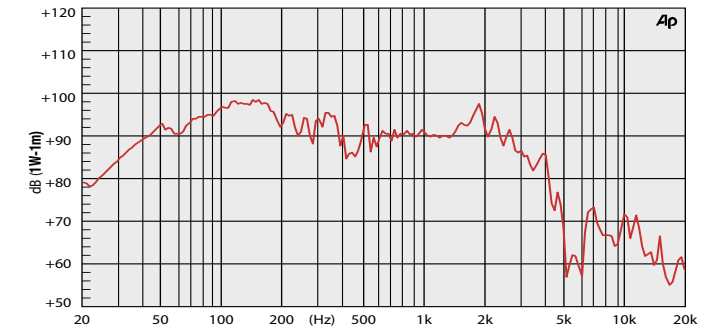


FEATURES:

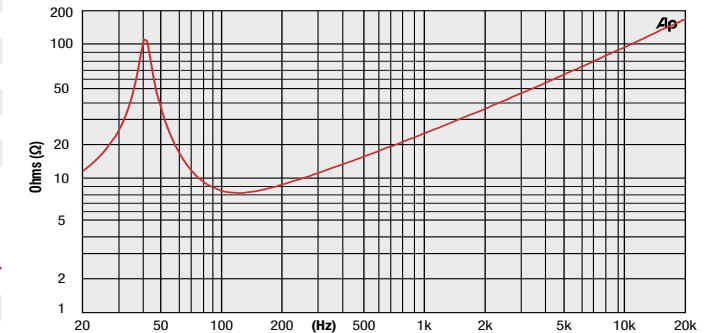
- Engineered for minimal weight using traditional ferrite magnet motor.
- 5" High temperature copper voice coil.
- 3 kg Y35 ceramic magnet.
- Double suspension assembly.
- Triple roll surround straight cone geometry.
- Straight cone geometry.

The PD.185C001 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. The robust mechanical design and construction makes this unit an ideal choice for fixed or touring applications.

FREQUENCY RESPONSE AND IMPEDANCE CHARTS



*2.83V. Half space response measured in a 950 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) @ 900 Watts.
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 900 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	9.0 mm / 0.35"
Voice Coil Diameter	5.0" / 127 mm	Flux Density	0.96 Tesla
Available Impedances	4 Ohm / 8 Ohm / 16 Ohm	Magnet Material	Ceramic
Power Rating ¹² *	1200 W (A.E.S.)	Voice Coil Material	Copper
Peak Power (6dB Crest Factor)*	4800 W (A.E.S.)	Former Material	Glass Fibre
Sensitivity (1W - 1m)*	97 dB	Dust Dome Material	Paper
Frequency Range	30 Hz - 300 Hz	Suspension Material	Fabric
Recommended Enclosure Volume	125 - 200 Litres	Cone / Surround Material	Paper / Fabric
Resonance	32 Hz		
Voice Coil Winding Depth	25.00 mm / 0.98"		

THIELE SMALL Parameters (8 Ω MODEL)³

Fs	32 Hz	Mms	157.20 g
Re	5.9 Ω	Sd	1162 cm ²
Qms	8.42	Cms	157.40 μm/N
Qes	0.423	BL	21.00 T/m
Qts	0.403	Xmax	10.50 mm
Le (@ 1 kHz)	3.80 mH	Vd	1.220 Litres
Le (@ 10 kHz)	1.589 mH	Ref. Efficiency	2.26%
Vas	302 Litres	EBP	75.65 Hz

DIMENSIONS

Overall Diameter	473.6 mm
Width Across Flats	458.73 mm
Flange Height	14.5 mm
Depth (Excl. Flange)	182.47 mm
Magnet Diameter	220 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	414.4 mm
Outer Bolt Circle	x6 M8 on 456 mm PCD

WEIGHT

Nett Weight	13.00 kg / 28.66 lb
Shipping Weight	13.50 kg / 29.76 lb