

PD.123C001

BASS/ MID RANGE DRIVER

12" / 304.8 mm

NOMINAL DIAMETER

400 W (A.E.S.)

POWER HANDLING

99 dB

SENSITIVITY (1W/ 1m)

45 Hz - 4 kHz

FREQUENCY RESPONSE

3.0" / 76.2 mm

VOICE COIL DIAMETER

7.50 mm Xmax

MAXIMUM LINEAR EXCURSION

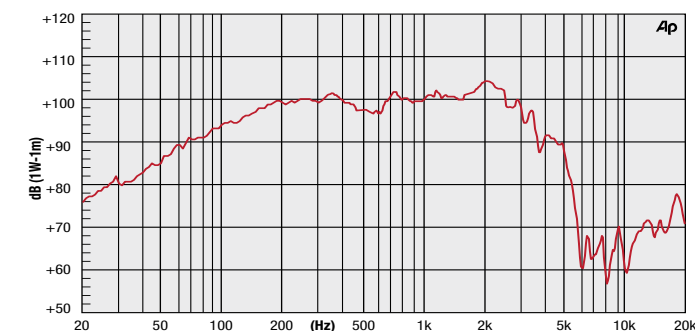


FEATURES:

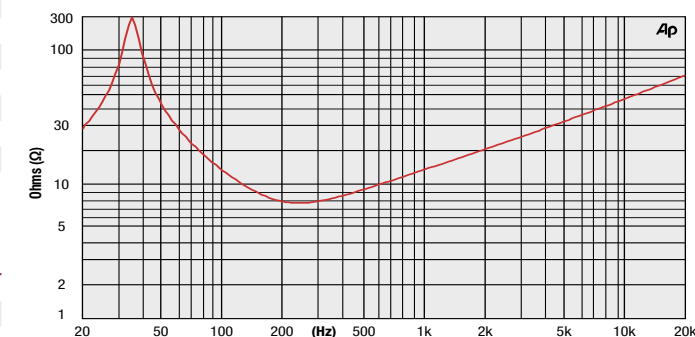
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Optimised vented voice coil cools and reduces coil gap turbulence.
- Multi roll cone surround profile.
- High BL of 24.5 T/m.

The PD.123C001 offers excellent linear response well controlled down to 50Hz. It is a very good solution for two way or multi way systems when a high BL and good punch is required.

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 (50 to 500 Hz) Program 400 Watts.

2. AES Recommended Practice.

3. Thiele - Small Parameters follow a 400 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	12" / 304.8 mm	Magnet Gap Depth	11.0 mm / 0.43"
Voice Coil Diameter	3.0" / 76.2 mm	Flux Density	1.20 Tesla
Available Impedances	8 Ohm	Magnet Material	Y30 Ferrite
Power Rating ¹² *	400 W (A.E.S.)	Voice Coil Material	Copper
Peak Power (6dB Crest Factor)*	1600 W (A.E.S.)	Former Material	Glass Fibre
Sensitivity (1W - 1m)*	99 dB	Dust Dome Material	Paper
Frequency Range	45 Hz - 4 kHz	Suspension Material	Fabric
Recommended Enclosure Volume	35 - 55 Litres	Cone / Surround Material	Fabric
Resonance	35 Hz		
Voice Coil Winding Depth	21.00 mm / 0.83"		

THIELE SMALL Parameters (8 Ω MODEL)³

Fs	35 Hz	Mms	70.00 g
Re	5.5 Ω	Sd	547 cm ²
Qms	7.50	Cms	288.00 μm/N
Qes	0.147	BL	24.50 T/m
Qts	0.144	Xmax	7.50 mm
Le (@ 1 kHz)	2.17 mH	Vd	0.410 Litres
Le (@ 10 kHz)	0.910 mH	Ref. Efficiency	3.44%
Vas	122 Litres	EBP	238.10 Hz

WEIGHT

Nett Weight	9.70 Kg / 21.38 lb
Shipping Weight	10.20 Kg / 22.49 lb

DIMENSIONS

Overall Diameter	331.0 mm
Width Across Flats	320 mm
Flange Height	10.0 mm
Depth (Excl. Flange)	121.00 mm
Magnet Diameter	200 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	279.0 mm
Outer Bolt Circle	x4 M6 318 mm PCD
Inner Bolt Circle	(Hidden) x8 M6 on 293 mm PCD