



# PD.123C001

## BASS/ MID RANGE DRIVER

**12" / 304.8 mm**

NOMINAL DIAMETER

**600 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

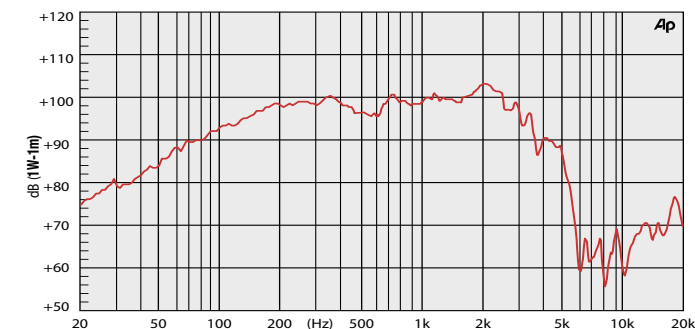


### FEATURES:

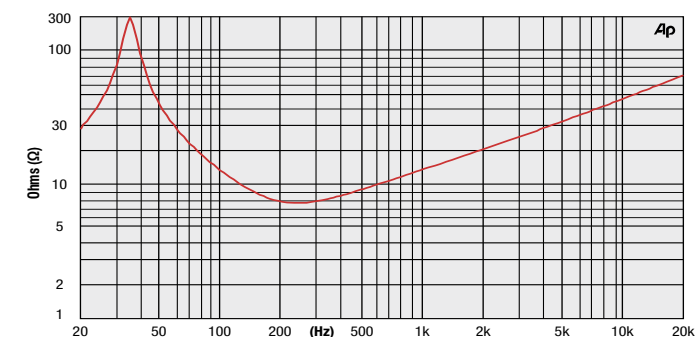
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Optimised vented voice coil cools and reduces coil gap turbulence.
- Multi roll cone surround profile.
- High BL of 24.5 T/m.

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) @ 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 <sup>12*</sup>	600 W (A.E.S.)	Voice Coil Material	Copper
Peak Power (6dB Crest Factor)*	2400 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)<sup>3</sup>

Fs	35 Hz	Mms	70.00 g
Re	5.5 Ω	Sd	547 cm <sup>2</sup>
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

### 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

### WEIGHT

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