

PD.123ER | MID RANGE DRIVER



12" / 300 mm
NOMINAL DIAMETER

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

97 dB
SENSITIVITY

50 Hz - 5 kHz
FREQUENCY RESPONSE

3.0" / 76 mm
VOICE COIL DIAMETER

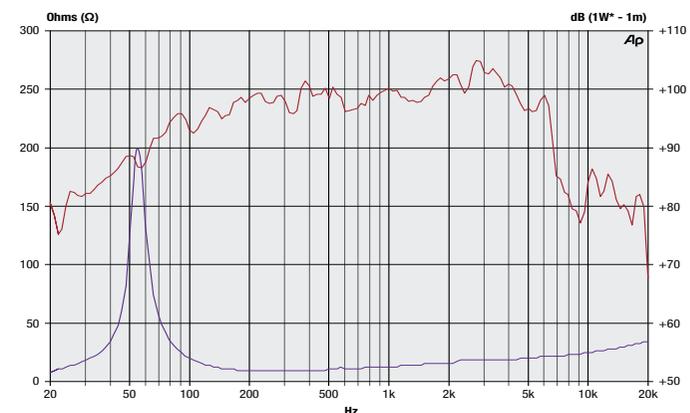
2.5 mm Xmax



PRODUCT FEATURES

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- ▶ A B/L in excess of 21 T/m.
- ▶ Extended mid range response up to 5kHz.
- ▶ Suitable for either direct radiating or popular horn loaded mid/high applications.
- ▶ Easy integration with small format compression drivers.

FREQUENCY RESPONSE AND IMPEDANCE CURVE



*2.83V. Half space response measured in a 50 Litre vented enclosure.

SPECIFICATIONS

Nominal Diameter	300 mm / 12"
Voice Coil Diameter	76 mm / 3.0"
Available Impedances	4 Ohms/ 8 Ohms/ 16 Ohms
Power Rating	400 w (A.E.S.)
Peak Power (6dB Crest Factor)	1600 w (A.E.S.)
Sensitivity (1w - 1m)	97 dB
Frequency Range	50 Hz - 5 kHz
Recommended Enclosure Volume	20 - 80 Litres
Resonance	55.87 Hz
Voice Coil Winding Depth	13 mm / 0.51"
Magnet Gap Depth	9 mm / 0.35"
Flux Density	1.35 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	55.87 Hz	Vas	54.54 litres
Re	6.74 Ω	Mms	58.92 g
Qms	13.03	Sd	530.93 cm ²
Qes	0.3	Cms	138 μm/N
Qts	0.29	BL	21.73 T/m
Le	0.25 mH	Xmax	2.5 mm
L2	1.81 mH	Vd	0.13 litres
R2	9.68 Ω	Ref. Efficiency	4.23 %

*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 (60 to 600 Hz).
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 400 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	330 mm
Width Across Flats	320.5 mm
Flange Height	10 mm
Depth (Excl. Flange)	117 mm
Magnet Diameter	200 mm

MOUNTING INFORMATION

Chassis Shoulder Diameter	282 mm
Outer Bolt Circle	6x M6 on 318 mm PCD
Inner Bolt Circle	8x M6 on 293 mm PCD

WEIGHT

Nett Weight	9.5 Kg / 20.94 lb.
Shipping Weight	9.75 Kg / 21.49 lb.