



PD.153 ER



- Heavy duty 15" cast aluminium frame with extra wide flange for increased rigidity
- 400W_{RMS}
- 3" copper voice coil assembly
- 90 oz. ceramic magnet
- A B/L in excess of 24 T/m for dynamic voicing
- Extended mid range response up to 4.5kHz

APPLICATION NOTES

Combining excellent bass performance with the advantage of an extended, very fast mid range frequency response, the PD.153ER is an excellent choice where a small format high frequency unit dictates a higher crossover point than can be achieved with other, more conventional, 15" transducers.

A popular choice for stage wedges when a faster mid range attack is required.

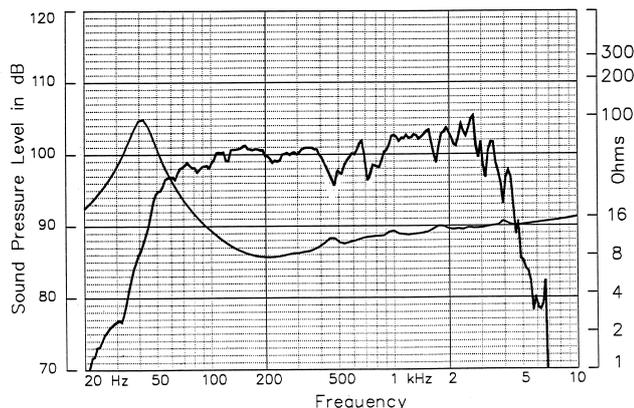
WORLD HEADQUARTERS

Precision Devices Grantley Way Wakefield West Yorkshire WF1 4PY England
Telephone: +44 (0) 1924 332188 Fax: +44 (0) 1924 239988 Email: info@precision-devices.com W: www.precision-devices.com

FACTORY

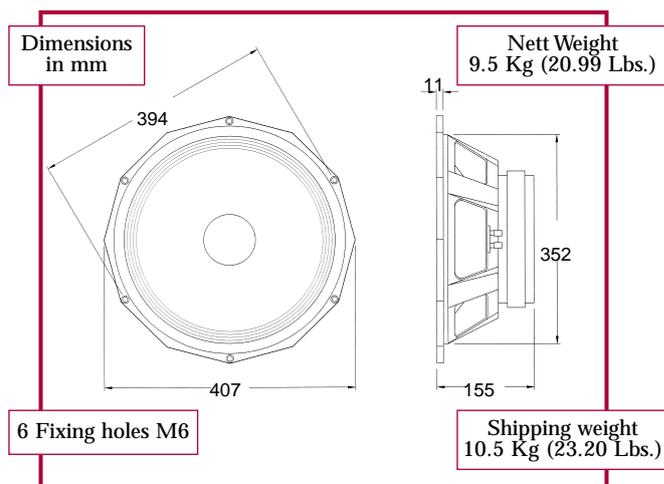
Precision Devices Jenson House Cardrew Industrial Estate Redruth Cornwall TR15 1SS England

RESPONSE & IMPEDANCE DETAIL



Response measured in a half space environment using a vented enclosure of 107 litres.

MECHANICAL DATA



TECHNICAL SPECIFICATION

Nominal Diameter	38cm (15")
Power rating ¹	400 Watts
Frequency range	Up to 4.5 kHz
Nominal Impedance	8 or 16 Ohms
Sensitivity ² (1 W 1 M)	99 dB
Resonance	40 Hz
Enc. Vol. Recommended	80 to 200 Litres
Displacement limit	13 mm (0.52")
Voice coil diameter	76 mm (3.04")
Voice coil	Copper
Voice coil winding depth	17 mm (0.68")
Suspension (Spider)	Fabric
Magnet gap depth	9 mm (0.36")
Magnet material/mass	Ceramic/2.5 Kg (90 oz.)
Magnetic assembly total mass	8.14 Kg (17.99 Lbs.)
Flux Density	13,500 Gauss
Cone type/material	Smooth Paper Fabric
Surround	Fabric
Dust dome	Paper
Connectors	Spring loaded push button metal bodied
Polarity	Positive Voltage on Red Terminal gives forward cone motion

Notes

1. AES Standard (50 to 500 Hz) Program 800 Watts
2. AES Recommended Practice.

THIELE - SMALL PARAMETERS

F_s	39 Hz	P_{mx}	400 Watts
X_{max}	5 mm	Q_{es}	0.234
Re_{vc}	5.7 Ohms	C_{ms}	163 μM/N
V_d	4.15 x10 ⁻⁴ m ³	V_{as}	160 Litres
Q_{ts}	0.222	M_{ms}	101 grams
No	3.90%	S_d	830 sq cm
Q_{ms}	4.45	BL	24.55 T/m

Notes

3. Thiele - Small Parameters follow a 400 Watt preconditioning period.