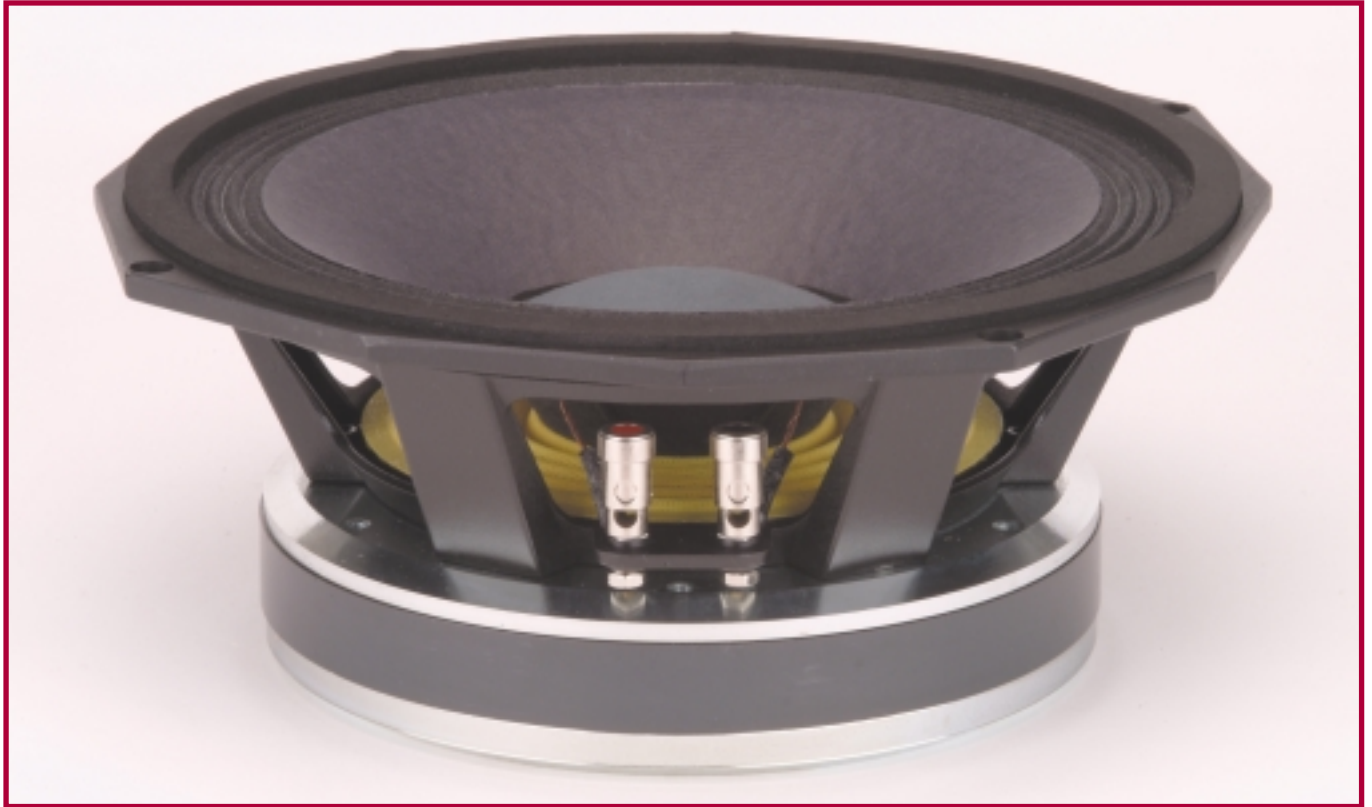




## PD.107



- Heavy duty 10" cast aluminium frame with extra wide flange for increased rigidity
- 300W<sub>RMS</sub>
- 2.5" copper voice coil assembly
- 90 oz. ceramic magnet
- A B/L in excess of 24 T/m for dynamic voicing

### APPLICATION NOTES

Designed primarily as a high power, mid frequency transducer, the large magnet structure gives excellent control and thermal properties.

An ideal choice when supporting our 15", 18", 21" and 24" bass drivers in high power systems that require additional power handling than offered by the PD.102ER.

It is equally well suited to direct radiating and compression (horn) loaded designs.

Also suitable for vocal performances as the PD.107 covers the critical vocal range in a single, highly effective unit.

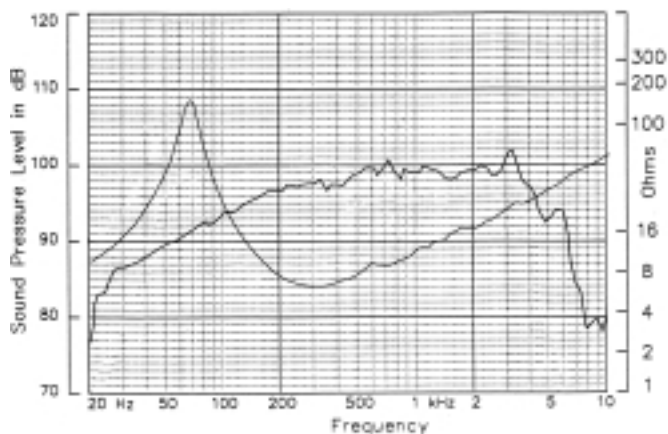
#### WORLD HEADQUARTERS

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](mailto:info@precision-devices.com) W: [www.precision-devices.com](http://www.precision-devices.com)

#### FACTORY

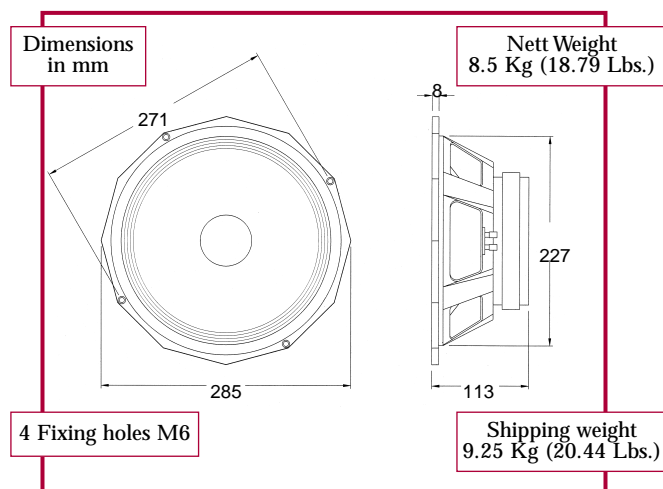
Precision Devices Jenson House Cardrew Industrial Estate Redruth Cornwall TR15 1SS England

## RESPONSE & IMPEDANCE DETAIL



Response measured in a half space environment using a vented enclosure of 35 litres.

## MECHANICAL DATA



## TECHNICAL SPECIFICATION

Nominal Diameter	25cm (10")
Power rating <sup>1</sup>	300 Watts
Frequency range	Up to 3.5 kHz
Nominal Impedance	8 or 16 Ohms
Sensitivity <sup>2</sup> (1 W 1 M)	99 dB
Resonance	75 Hz
Enc. Vol. Recommended	3 to 60 Litres
Displacement limit	5 mm (0.20")
Voice coil diameter	63.5 mm (2.5")
Voice coil	Copper
Voice coil winding depth	12 mm (0.48")
Suspension (Spider)	Fabric
Magnet gap depth	9 mm (0.36")
Magnet material/mass	2.5 Kg (90 oz)
Magnetic assembly total mass	7.8 Kg (17.24 Lbs.)
Flux Density	15,000 Gauss
Cone type/material	Curvilinear Smooth Paper
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 (500 to 5 KHz) Program 600 Watts
2. AES Recommended Practice.

## THIELE - SMALL PARAMETERS

<b>Fs</b>	74.4 Hz	<b>Qes</b>	0.164
<b>Xmax</b>	1.5 mm	<b>Cms</b>	122 $\mu$ M/N
<b>Revc</b>	5.5 Ohms	<b>Vas</b>	20.78 Litres.
<b>Vd</b>	$4.5 \times 10^{-5} \text{m}^3$	<b>Mms</b>	37.41 grams
<b>Qts</b>	0.158	<b>Sd</b>	346 sq cm
<b>No</b>	5.05%	<b>BL</b>	24.21 T/m
<b>Qms</b>	4.43	<b>Splo</b>	99.05 dB
<b>Pmx</b>	300 Watts		

### Notes

3. Thiele - Small Parameters follow a 300 Watt preconditioning period.