

# PDN.12SB40

| SUB BASS DRIVER



**12" / 300 mm**  
NOMINAL DIAMETER

**600 w (A.E.S.)**  
POWER HANDLING

**95 dB**  
SENSITIVITY

**40 Hz - 2 kHz**  
FREQUENCY RESPONSE

**4.0" / 101 mm**  
VOICE COIL DIAMETER

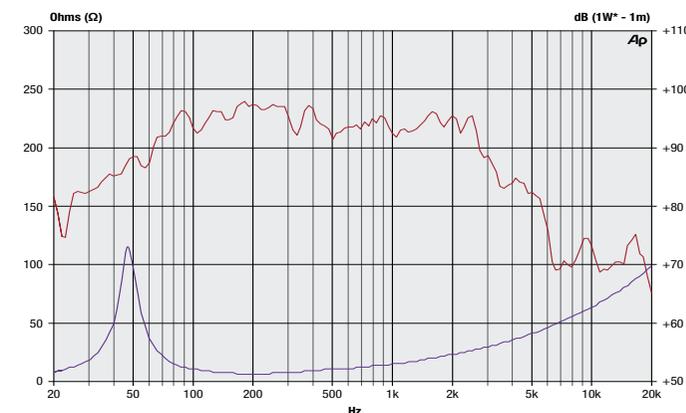
**9.2 mm Xmax**



## PRODUCT FEATURES

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- ▶ Smooth extended low-frequency response.
- ▶ Suitable for bass reflex and bandpass applications.
- ▶ Easy integration with 2" compression drivers.

## FREQUENCY RESPONSE AND IMPEDANCE CURVE



\*2.83V. Half space response measured in a 975 Litre sealed enclosure.

## SPECIFICATIONS

Nominal Diameter	300 mm / 12"
Voice Coil Diameter	101 mm / 4.0"
Available Impedances	8 Ohms
Power Rating	600 w (A.E.S.)
Peak Power (6dB Crest Factor)	2400 w (A.E.S.)
Sensitivity (1w - 1m)	95 dB
Frequency Range	40 Hz - 2 kHz
Recommended Enclosure Volume	25 - 100 Litres
Resonance	49.91 Hz
Voice Coil Winding Depth	22 mm / 0.87"
Magnet Gap Depth	8 mm / 0.31"
Flux Density	1.13 Tesla
Magnet Material	Neodymium
Voice Coil Material	Copper
Former Material	Glass Fibre
Dust Dome Material	Paper
Suspension Material	Dual Fabric
Cone / Surround Material	Paper / Fabric

## THIELE SMALL PARAMETERS (8Ω MODEL)

Fs	49.91 Hz	Vas	45.81 litres
Re	5.36 Ω	Mms	87.95 g
Qms	8.82	Sd	530.93 cm <sup>2</sup>
Qes	0.33	Cms	115.67 μm/N
Qts	0.32	BL	21 T/m
Le	0.9 mH	Xmax	9.2 mm
L2	1.66 mH	Vd	1.1 litres
R2	13.86 Ω	Ref. Efficiency	1.13 %

\*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 (50 to 500 Hz).
2. A.E.S. Recommended Practice.
3. Thiele - Small Parameters follow a 600 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)	131 mm
Magnet Diameter	283 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	6.75 Kg / 14.88 lb.
Shipping Weight	7.5 Kg / 16.53 lb.