

# PDN.18BR40 | BASS DRIVER



**18" / 460 mm**  
NOMINAL DIAMETER

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

**97 dB**  
SENSITIVITY

**35 Hz - 3 kHz**  
FREQUENCY RESPONSE

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

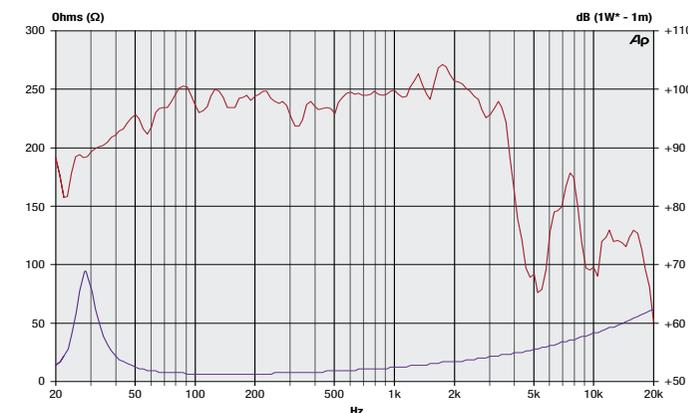
**10.5 mm Xmax**



## PRODUCT FEATURES

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- ▶ A smooth extended mid range to allow easy crossover integration.
- ▶ Suitable for bass reflex designs.
- ▶ Lightweight neodymium magnet.

## FREQUENCY RESPONSE AND IMPEDANCE CURVE



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

## SPECIFICATIONS

|                               |                  |
|-------------------------------|------------------|
| Nominal Diameter              | 460 mm / 18"     |
| Voice Coil Diameter           | 101 mm / 4.0"    |
| Available Impedances          | 8 Ohms           |
| Power Rating                  | 700 w (A.E.S.)   |
| Peak Power (6dB Crest Factor) | 2800 w (A.E.S.)  |
| Sensitivity (1w - 1m)         | 97 dB            |
| Frequency Range               | 35 Hz - 3 kHz    |
| Recommended Enclosure Volume  | 100 - 350 Litres |
| Resonance                     | 30.06 Hz         |
| Voice Coil Winding Depth      | 25 mm / 0.98"    |
| Magnet Gap Depth              | 9 mm / 0.35"     |
| Flux Density                  | 1.32 Tesla       |
| Magnet Material               | Neodymium        |
| 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  | 30.06 Hz | Vas             | 314.66 litres           |
| Re  | 5.13 Ω   | Mms             | 160.99 g                |
| Qms | 10.31    | Sd              | 1134.11 cm <sup>2</sup> |
| Qes | 0.39     | Cms             | 174.33 μm/N             |
| Qts | 0.37     | BL              | 20.04 T/m               |
| Le  | 0.88 mH  | Xmax            | 10.5 mm                 |
| L2  | 1.94 mH  | Vd              | 1.19 litres             |
| R2  | 4.18 Ω   | Ref. Efficiency | 2.39 %                  |

\*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 700 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     | 474 mm |
| Width Across Flats   | 458 mm |
| Flange Height        | 13 mm  |
| Depth (Excl. Flange) | 180 mm |
| Magnet Diameter      | 182 mm |

## MOUNTING INFORMATION

|                           |                     |
|---------------------------|---------------------|
| Chassis Shoulder Diameter | 415 mm              |
| Outer Bolt Circle         | 6x M8 on 456 mm PCD |
| Inner Bolt Circle         | N/A                 |

## WEIGHT

|                 |                     |
|-----------------|---------------------|
| Nett Weight     | 8.7 Kg / 19.18 lb.  |
| Shipping Weight | 10.1 Kg / 22.27 lb. |