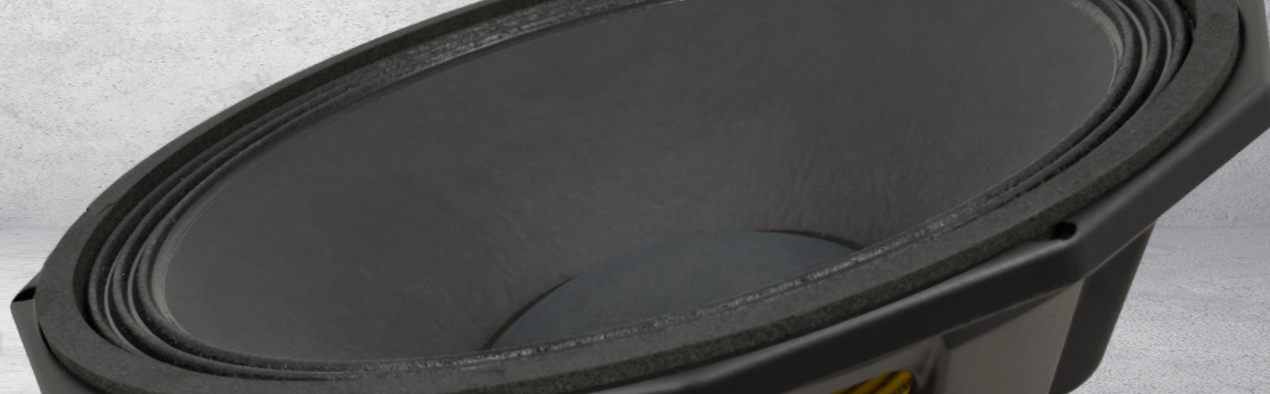


PDN.1852 | SUB BASS DRIVER



18" / 460 mm

NOMINAL DIAMETER

1000 w (A.E.S.)

POWER HANDLING

98 dB

SENSITIVITY

35 Hz - 2 kHz

FREQUENCY RESPONSE

5.0" / 127 mm

VOICE COIL DIAMETER

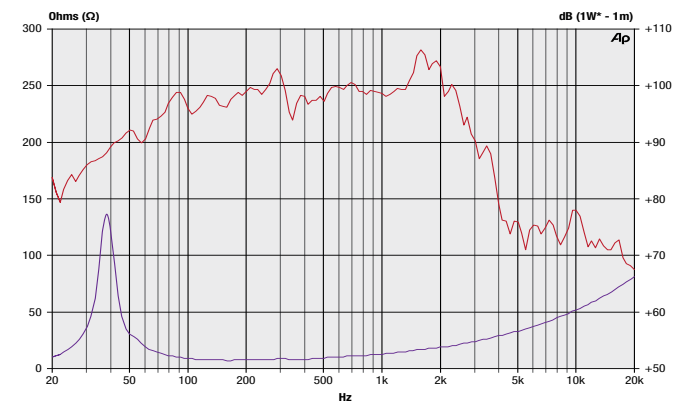
12 mm Xmax



PRODUCT FEATURES

- ▶ Lightweight neodymium motor system.
- ▶ Heavy duty cast aluminium frame for increased rigidity.
- ▶ A B/L in excess of 30 T/m for fast accurate lows.
- ▶ Dual silicone suspension.
- ▶ Warm tonal sound.
- ▶ Appropriate for applications as diverse as scoop bins, conventional reflex cabinets and horn loaded systems.

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 | 127 mm / 5.0" |
| Available Impedances | 4 Ohms / 8 Ohms / 16 Ohms |
| Power Rating | 1000 w (A.E.S.) |
| Peak Power (6dB Crest Factor) | 4000 w (A.E.S.) |
| Sensitivity (1w - 1m) | 98 dB |
| Frequency Range | 35 Hz - 2 kHz |
| Recommended Enclosure Volume | 90 - 220 Litres |
| Resonance | 41.85 Hz |
| Voice Coil Winding Depth | 29 mm / 1.14" |
| Magnet Gap Depth | 12 mm / 0.47" |
| Flux Density | 1.18 Tesla |
| Magnet Material | Neodymium |
| Voice Coil Material | Copper |
| Former Material | Glass Fibre |
| Dust Dome Material | Paper |
| Suspension Material | Dual Silicone |
| Cone / Surround Material | Paper / HGBC |

THIELE SMALL PARAMETERS (8Ω MODEL)

| | | | |
|-----|----------|-----------------|-------------------------|
| Fs | 41.85 Hz | Vas | 120.38 litres |
| Re | 5.18 Ω | Mms | 231.21 g |
| Qms | 11.1 | Sd | 1164.16 cm ² |
| Qes | 0.34 | Cms | 0.063 mm/N |
| Qts | 0.33 | BL | 30.47 T/m |
| Le | 0.9 mH | Xmax | 12 mm |
| L2 | 1.83 mH | Vd | 1.397 litres |
| R2 | 5.41 Ω | Ref. Efficiency | 2.34 % |

*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.
** Distortion is measured at 10% of the rated power (AES Standard).

1. AES Standard (35 to 350 Hz)
2. AES Recommended Practice.
3. Thiele - Small Parameters follow a 1000 Watt 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 | 459 mm |
| Flange Height | 14.5 mm |
| Depth (Excl. Flange) | 185 mm |
| Magnet Diameter | 166 mm |

MOUNTING INFORMATION

| | |
|---------------------------|---------------------|
| Chassis Shoulder Diameter | 414.5 mm |
| Outer Bolt Circle | 6x M8 on 455 mm PCD |
| Inner Bolt Circle | N/A |

WEIGHT

| | |
|-----------------|---------------------|
| Nett Weight | 11.5 Kg / 25.35 lb. |
| Shipping Weight | 12.9 Kg / 28.44 lb. |