PD.2150

SUB BASS DRIVER

21" / 530 mm NOMINAL DIAMETER

1000 w (A.E.S.)

POWER HANDLING

98 dB SENSITIVITY 30 Hz - 1 kHz

FREQUENCY RESPONSE

6.0" / 152 mm

10.5 mm Xmax

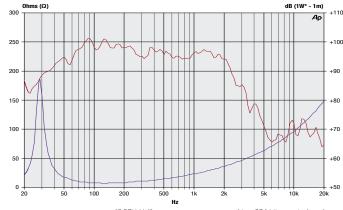
VOICE COIL DIAMETER

## PRODUCT FEATURES

- Power compression 2dB at rated power.
- A B/L in excess of 37 T/m.
- > Suitable for horn loaded or bass reflex designs.

- ▶ Heavy-duty cast aluminium chassis for increased rigidity.
- Double suspension system.

# FREQUENCY RESPONSE AND IMPEDANCE CURVE



\*2.83V. Half space response measured in a 234 Litre vented enclosure.

### **SPECIFICATIONS**

| Voice Coil Diameter  Available Impedances  Power Rating  Peak Power (6dB Crest Factor)  Sensitivity (1w - 1m)  Frequency Range  Recommended Enclosure Volume  Resonance  Voice Coil Winding Depth  Magnet Gap Depth  Flux Density  Magnet Material  Voice Coil Material  Dust Dome Material  Suspension Material  Voice / Surround Material  Voice / Surround Material  Paper / Fabric  | Nominal Diameter              | 530 mm / 21"            |
|---|-------------------------------|-------------------------|
| Power Rating         1000 w (A.E.S.)           Peak Power (6dB Crest Factor)         4000 w (A.E.S.)           Sensitivity (1w - 1m)         98 dB           Frequency Range         30 Hz - 1 kHz           Recommended Enclosure Volume         130 - 350 Litres           Resonance         29.5 Hz           Voice Coil Winding Depth         30 mm / 1.18"           Magnet Gap Depth         15 mm / 0.59"           Flux Density         1.1 Tesla           Magnet Material         Ceramic           Voice Coil Material         Copper           Former Material         Glass Fibre           Dust Dome Material         Paper           Suspension Material         Dual Fabric | Voice Coil Diameter           | 152 mm / 6.0"           |
| Peak Power (6dB Crest Factor)         4000 w (A.E.S.)           Sensitivity (1w - 1m)         98 dB           Frequency Range         30 Hz - 1 kHz           Recommended Enclosure Volume         130 - 350 Litres           Resonance         29.5 Hz           Voice Coil Winding Depth         30 mm / 1.18"           Magnet Gap Depth         15 mm / 0.59"           Flux Density         1.1 Tesla           Magnet Material         Ceramic           Voice Coil Material         Copper           Former Material         Glass Fibre           Dust Dome Material         Paper           Suspension Material         Dual Fabric  | Available Impedances          | 4 Ohms/ 8 Ohms/ 16 Ohms |
| Sensitivity (Iw - Im)         98 dB           Frequency Range         30 Hz - 1 kHz           Recommended Enclosure Volume         130 - 350 Litres           Resonance         29.5 Hz           Voice Coil Winding Depth         30 mm / 1.18"           Magnet Gap Depth         15 mm / 0.59"           Flux Density         1.1 Tesla           Magnet Material         Ceramic           Voice Coil Material         Copper           Former Material         Glass Fibre           Dust Dome Material         Paper           Suspension Material         Dual Fabric  | Power Rating                  | 1000 w (A.E.S.)         |
| Frequency Range Recommended Enclosure Volume Resonance Voice Coil Winding Depth Magnet Gap Depth Flux Density Magnet Material Voice Coil Material Voice Coil Material Former Material Dust Dome Material Suspension Material  30 Hz - 1 kHz 130 - 350 Litres 29.5 Hz 30 mm / 1.18" 15 mm / 0.59" 11 Tesla Ceramic Copper Glass Fibre Paper Dual Fabric  | Peak Power (6dB Crest Factor) | 4000 w (A.E.S.)         |
| Recommended Enclosure Volume         130 - 350 Litres           Resonance         29.5 Hz           Voice Coil Winding Depth         30 mm / 1.18"           Magnet Gap Depth         15 mm / 0.59"           Flux Density         1.1 Tesla           Magnet Material         Ceramic           Voice Coil Material         Copper           Former Material         Glass Fibre           Dust Dome Material         Paper           Suspension Material         Dual Fabric  | Sensitivity (1w - 1m)         | 98 dB                   |
| Resonance 29.5 Hz  Voice Coil Winding Depth 30 mm / 1.18"  Magnet Gap Depth 15 mm / 0.59"  Flux Density 1.1 Tesla  Magnet Material Ceramic  Voice Coil Material Copper  Former Material Glass Fibre  Dust Dome Material Paper  Suspension Material Dual Fabric  | Frequency Range               | 30 Hz - 1 kHz           |
| Voice Coil Winding Depth  Magnet Gap Depth  Flux Density  Magnet Material  Voice Coil Material  Former Material  Dust Dome Material  Suspension Material  Voice Coil Winding Depth  15 mm / 0.59"  1.1 Tesla  Ceramic  Copper  Glass Fibre  Paper  Dual Fabric  | Recommended Enclosure Volume  | 130 - 350 Litres        |
| Magnet Gap Depth 15 mm / 0.59" Flux Density 1.1 Tesla Magnet Material Ceramic Voice Coil Material Copper Former Material Glass Fibre Dust Dome Material Paper Suspension Material Dual Fabric   | Resonance                     | 29.5 Hz                 |
| Flux Density  Magnet Material  Voice Coil Material  Former Material  Dust Dome Material  Suspension Material  Dual Fabric  1.1 Tesla  Ceramic  Copper  Glass Fibre  Paper  Dual Fabric  | Voice Coil Winding Depth      | 30 mm / 1.18"           |
| Magnet Material Ceramic Voice Coil Material Copper Former Material Glass Fibre Dust Dome Material Paper Suspension Material Dual Fabric   | Magnet Gap Depth              | 15 mm / 0.59"           |
| Voice Coil Material Copper Former Material Glass Fibre Dust Dome Material Paper Suspension Material Dual Fabric   | Flux Density                  | 1.1 Tesla               |
| Former Material Glass Fibre Dust Dome Material Paper Suspension Material Dual Fabric  | Magnet Material               | Ceramic                 |
| Dust Dome Material Paper Suspension Material Dual Fabric  | Voice Coil Material           | Copper                  |
| Suspension Material Dual Fabric   | Former Material               | Glass Fibre             |
|   | Dust Dome Material            | Paper                   |
| Cone / Surround Material Paper / Fabric   | Suspension Material           | Dual Fabric             |
|   | Cone / Surround Material      | Paper / Fabric          |

## THIELE SMALL PARAMETERS (8Ω MODEL)

| Fs  | 29.5 Hz | Vas             | 309.3 litres            |
|-----|---------|-----------------|-------------------------|
| Re  | 5.52 Ω  | Mms             | 382.86 g                |
| Qms | 14.21   | Sd              | 1698.23 cm <sup>2</sup> |
| Qes | 0.28    | Cms             | 76.4 µm/N               |
| Qts | 0.27    | BL              | 37.42 T/m               |
| Le  | 2.1 mH  | Xmax            | 10.5 mm                 |
| L2  | 3.44 mH | Vd              | 1.712 litres            |
| R2  | 10.8 Ω  | Ref. Efficiency | 3.39 %                  |

\*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 (30 to 300 Hz) 2. A.E.S. Recommended Practice.
- Thiele Small Parameters follow a 1000 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     | 555 mm |
|----------------------|--------|
| Width Across Flats   | 535 mm |
| Flange Height        | 15 mm  |
| Depth (Excl. Flange) | 215 mm |
| Magnet Diameter      | 316 mm |

## MOUNTING INFORMATION

| Chassis Shoulder Diameter | 495 mm              |
|---------------------------|---------------------|
| Outer Bolt Circle         | 6x M8 on 526 mm PCD |
| Inner Bolt Circle         | N/A                 |

### WEIGHT

| Nett Weight     | 31.75 Kg / 70.00 lb. |
|-----------------|----------------------|
| Shipping Weight | 33.75 Kg / 74.41 lb. |