

PD.153C002

BASS/ MID RANGE DRIVER

15" / 381 mm

NOMINAL DIAMETER

450 W (A.E.S.)

POWER HANDLING

101 dB

SENSITIVITY (1W/ 1m)

40 Hz - 5 kHz

FREQUENCY RESPONSE

3.0" / 76.2 mm

VOICE COIL DIAMETER

6.75 mm Xmax

MAXIMUM LINEAR EXCURSION

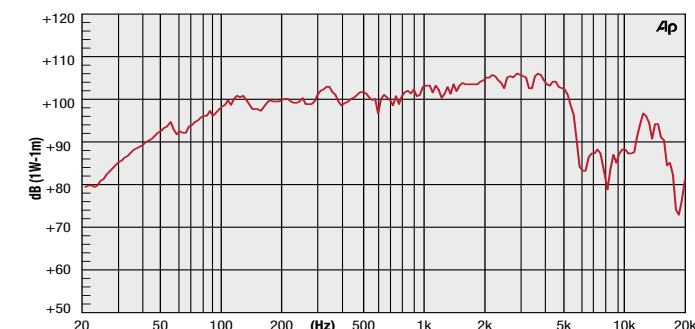


FEATURES:

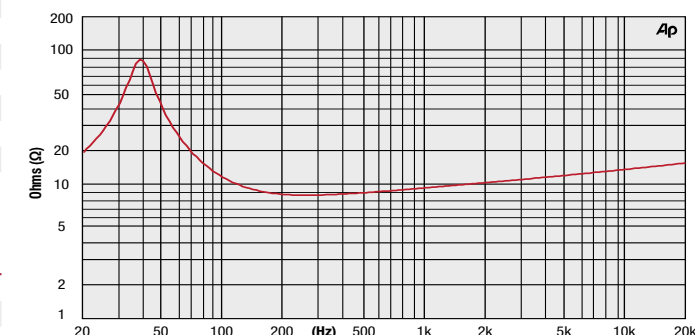
- Vented cast aluminium chassis for improved thermal control of voice coil.
- Aluminium demodulating ring.
- Copper shorting ring.
- M-roll cone surround profile.
- Ribbed cone profile.

The PD.153C002 offers excellent linear response well controlled down to 45Hz. It is a very good solution for two way or multi way systems. Thanks to the copper shorting ring and CCAW voice coil wire the unit also offers extended high frequency performance. Works well in conjunction with 1-inch exit compression driver.

FREQUENCY RESPONSE AND IMPEDANCE CHARTS



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



*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 (40 to 400 Hz) Program 400 Watts.

2. AES Recommended Practice.

3. Thiele - Small Parameters follow a 400 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.

GENERAL SPECIFICATIONS

| | | | |
|--------------------------------|------------------------|--------------------------|-----------------------|
| Nominal Diameter | 15" / 381 mm | Magnet Gap Depth | 10.0 mm / 0.39" |
| Voice Coil Diameter | 3.0" / 76.2 mm | Flux Density | 1.20 Tesla |
| Available Impedances | 4 Ohm / 8 Ohm / 16 Ohm | Magnet Material | Y30 Ferrite |
| Power Rating ¹² * | 450 W (A.E.S.) | Voice Coil Material | Copper Clad Aluminium |
| Peak Power (6dB Crest Factor)* | 1800 W (A.E.S.) | Former Material | Kapton |
| Sensitivity (1W - 1m)* | 101 dB | Dust Dome Material | Paper |
| Frequency Range | 40 Hz - 5 kHz | Suspension Material | Fabric |
| Recommended Enclosure Volume | 40 - 80 Litres | Cone / Surround Material | Fabric |
| Resonance | 38 Hz | | |
| Voice Coil Winding Depth | 18.50 mm / 0.73" | | |

THIELE SMALL Parameters (8 Ω MODEL)³

| | | | |
|---------------|------------|-----------------|---------------------|
| Fs | 38 Hz | Mms | 67.14 g |
| Re | 5.6 Ω | Sd | 853 cm ² |
| Qms | 4.03 | Cms | 254.40 μm/N |
| Qes | 0.265 | BL | 18.90 T/m |
| Qts | 0.249 | Xmax | 6.75 mm |
| Le (@ 1 kHz) | 1.28 mH | Vd | 0.570 Litres |
| Le (@ 10 kHz) | 0.128 mH | Ref. Efficiency | 5.46% |
| Vas | 263 Litres | EBP | 143.40 Hz |

DIMENSIONS

| | |
|----------------------|-----------|
| Overall Diameter | 408.3 mm |
| Width Across Flats | 395 mm |
| Flange Height | 11.0 mm |
| Depth (Excl. Flange) | 152.70 mm |
| Magnet Diameter | 200 mm |

MOUNTING INFORMATION

| | |
|---------------------------|---------------------|
| Chassis Shoulder Diameter | 354.2 mm |
| Outer Bolt Circle | x6 M8 on 394 mm PCD |

WEIGHT

| | |
|-----------------|---------------------|
| Nett Weight | 10.85 Kg / 23.92 lb |
| Shipping Weight | 11.35 Kg / 25.02 lb |