

8 inch HIGH POWER WOOFER LOUDSPEAKER

APPLICATION

For high-fidelity reproduction in sealed acoustic enclosures. Maximum enclosure volume 25 litres. Maximum recommended crossover frequency 2500 Hz.

TECHNICAL DATA

| | version | |
|--|------------|------------|
| | W4 | W8 |
| Rated impedance | 4 | 8 Ω |
| Voice coil resistance | 3,8 | 7 Ω |
| Rated frequency range | 50 to 4000 | Hz |
| Resonance frequency | 39 | Hz |
| Power handling capacity, measured without filter, mounted in 25 l sealed enclosure | 50 | W |
| Maximum power on loudspeaker | 100 | W |
| Operating power | 3,8 | W |
| Sweep voltage (frequency range 35 to 3000 Hz) | 5 | 6,3 V |
| Energy in air gap | 229 | 240 mJ |
| Flux density | 1,1 | 1,2 T |
| Force factor (B x l) at 1 A | 5,4 | 6,5 Wb/m |
| Total moving mass | | 17,5 g |
| Compliance, loudspeaker unmounted | | 1,02 mm/N |
| Air-gap height | | 5 mm |
| Voice coil height | | 10 mm |
| Core diameter | | 25 mm |
| Magnet material | | ceramic |
| diameter | | 90 mm |
| mass | | 0,45 kg |
| Mass of loudspeaker | | 1,15 kg |

The loudspeaker has a paper cone and a polyester surround. Connection to the loudspeaker by means of 5,1 mm (0,2 inch) or 2,8 mm (0,11 inch) tag connectors or by soldering.

Dimensions in mm

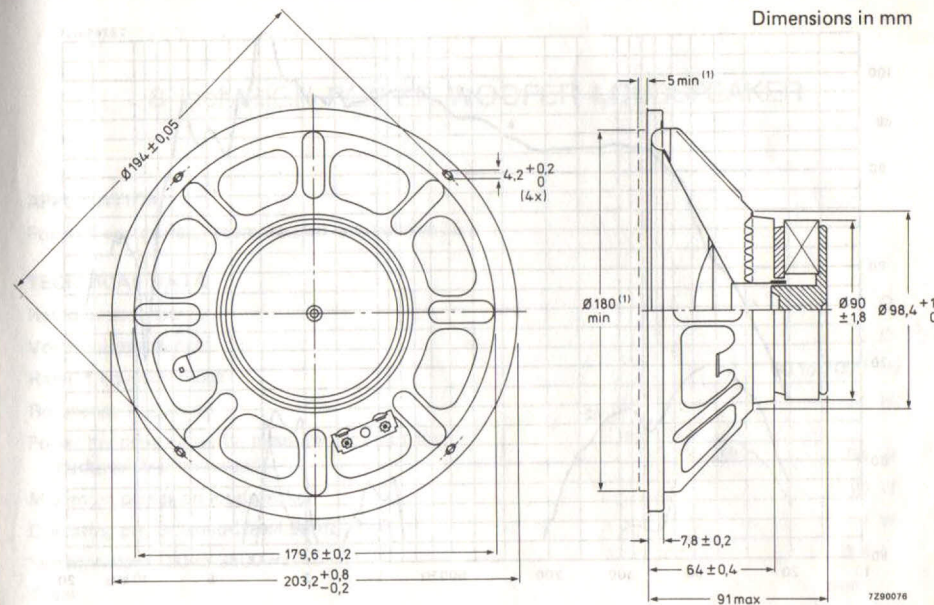


Fig. 1.

(1) Baffle hole and clearance depth required for cone movement at the specified power handling capacity.

One tag is indicated by a red mark for in-phase connection.

AVAILABLE VERSIONS

AD80652/W4, catalogue number 2422 257 48531
AD80652/W8, catalogue number 2422 257 48532

these numbers apply to bulk
packed loudspeakers, minimum
packing quantity 10 per unit.

FREQUENCY RESPONSE CURVES (See Fig. 2)

Measured in anechoic room at the operating power. Loudspeaker mounted in sealed 25 l enclosure, filled with 1 kg of glasswool.

Curve a: Sound pressure.

Curves d2 and d3: 2nd and 3rd harmonic distortion.

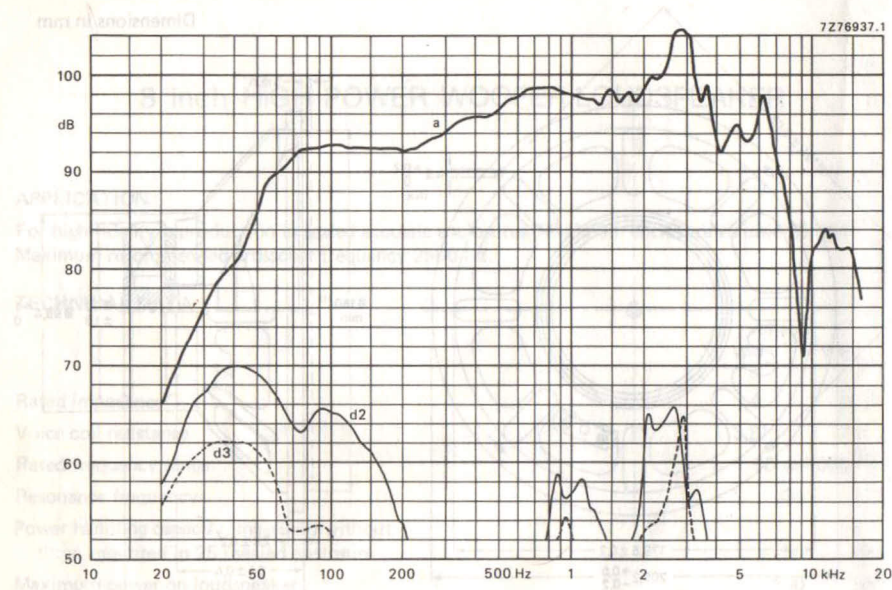


Fig. 2.