

DEVELOPMENT SAMPLE DATA

This information is derived from development samples made available for evaluation. It does not form part of our data handbook system and does not necessarily imply that the device will go into production

AD80651/W.
AD80652/W.

8 INCH HIGH POWER WOOFER LOUDSPEAKERS

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 5000 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 | 203 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 x 10 ⁻³ kg | |
| Compliance, loudspeaker unmounted | 1,02 x 10 ⁻³ m/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 |

Type AD80651/W. has a paper cone and a rubber surround, type AD80652/W. has a paper cone and a polyester surround (being the only difference between the two types). 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

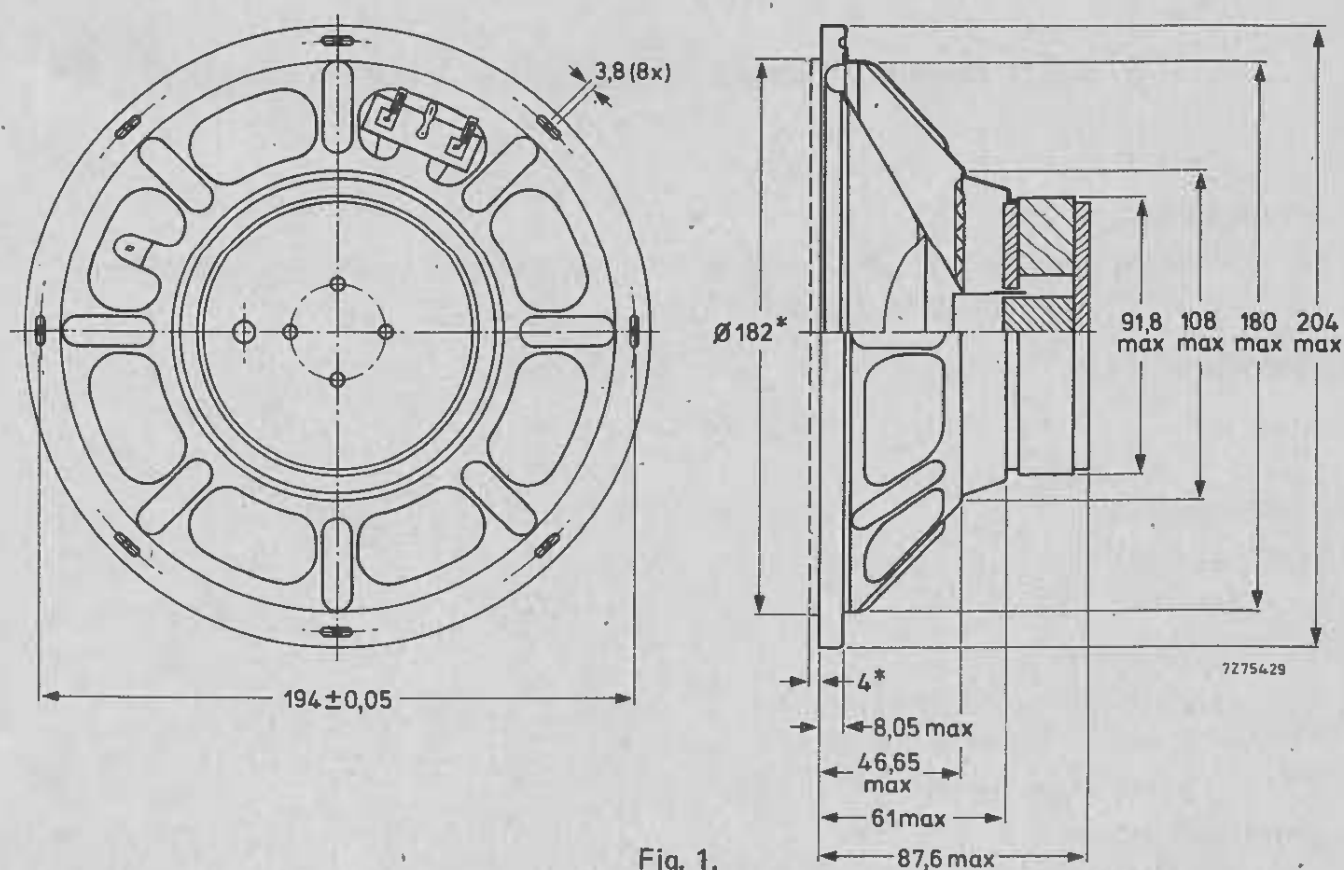


Fig. 1.

* 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

With rubber surround

AD80651/W4, catalogue number 2422 257 484 . 1

AD80651/W8, catalogue number 2422 257 484 . 2

0 = stamped on loudspeaker magnet,
not to be used for ordering

2 = for bulk packing**

6 = for single unit packing

With polyester surround

AD80652/W4, catalogue number 2422 257 485 . 1

AD80652/W8, catalogue number 2422 257 485 . 2

1 = stamped on loudspeaker magnet,
not to be used for ordering

3 = for bulk packing**

7 = for single unit packing

FREQUENCY RESPONSE CURVES (see Fig. 2)

Curve a: Sound pressure measured in anechoic room at operating power. Loudspeaker mounted in sealed 25 l enclosure, filled with 1 kg of glass wool.

Curves d2 and d3: 2nd and 3rd harmonic distortion, measured at the operating power of 2,5 W in anechoic room, loudspeaker mounted in sealed 25 l enclosure, filled with 1 kg of glass wool.

**** Minimum packing quantity 3 per unit.**

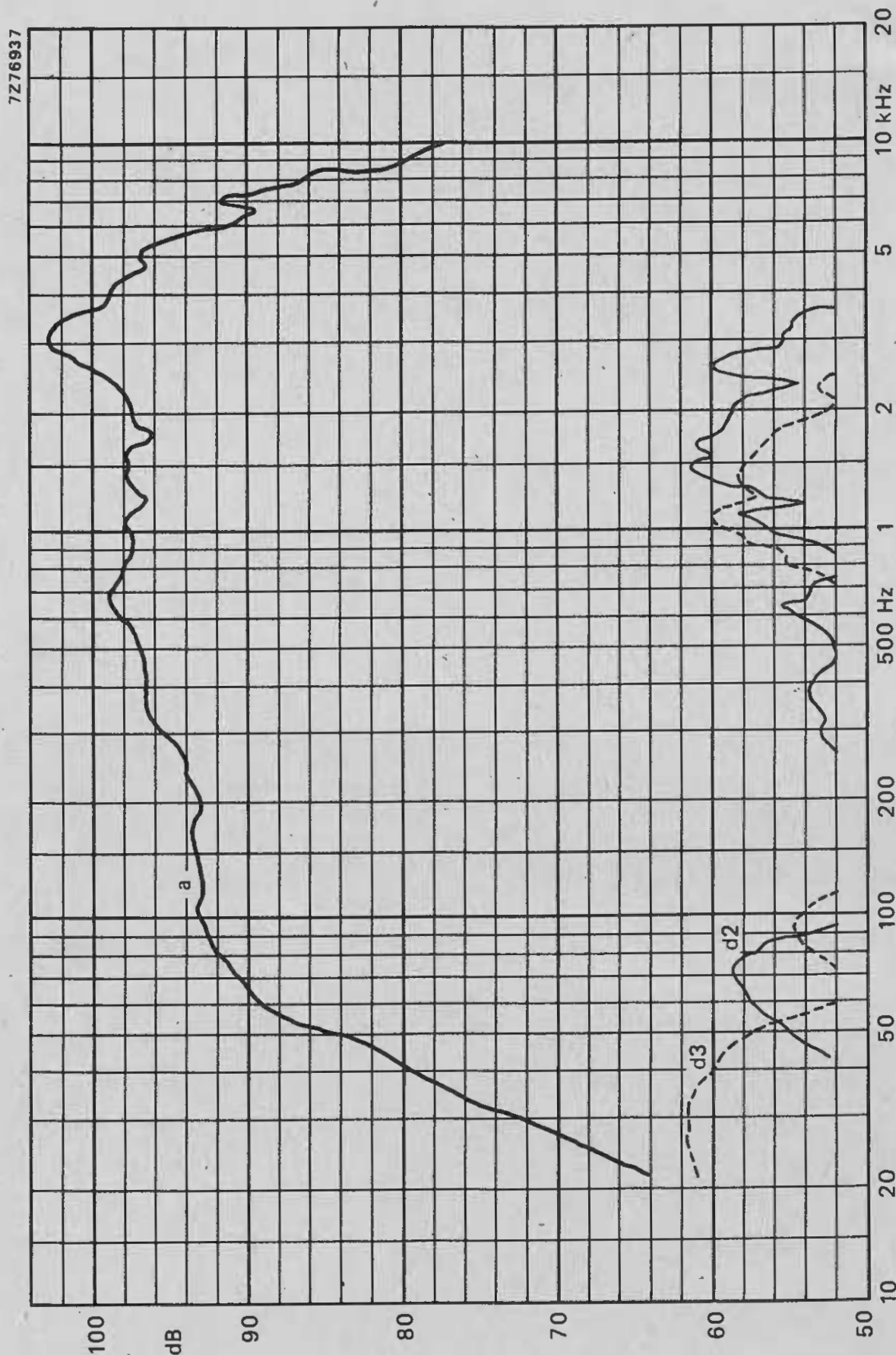


Fig. 2.