

## 8 inch HIGH POWER WOOFER LOUDSPEAKER

## APPLICATION

For hi-fi enclosures, recommended box volume 25 l.

## TECHNICAL DATA

|  |                             |
|--|-----------------------------|
| Rated impedance  | 8 $\Omega$                  |
| Voice coil resistance  | 6 $\Omega$ $\pm 1,2 \Omega$ |
| Rated frequency range  | 50 to 7000 Hz               |
| Resonance frequency  | 35 Hz                       |
| Power handling capacity, measured without filter,<br>loudspeaker unmounted | 55 W                        |
| Maximum power on loudspeaker   | 110 W                       |
| Operating power (sound level 96 dB, 1 m)                                   | 4 W                         |
| Sweep voltage (20 to 3500 Hz)  | 8,5 V                       |
| Filter   | none                        |
| Energy in air gap  | 249 mJ                      |
| Flux density   | 0,99 T                      |
| Force factor (b x l) at 1 A  | 6,7 Wb/m                    |
| Total moving mass, loudspeaker mounted                                     | 18,5 g                      |
| Compliance, loudspeaker unmounted  | 1,19 mm/N                   |
| Air-gap height   | 5 mm                        |
| Voice coil height  | 16 mm                       |
| Coil diameter  | 35 mm                       |
| Magnet material  | ceramic                     |
| diameter   | 90 mm                       |
| mass   | 0,51 kg                     |
| Mass of loudspeaker  | 1,35 kg                     |

Connection is by 2,8 mm (0,11 inch) tag connectors or by soldering. The loudspeaker has a paper cone and a foam rim.

Dimensions in mm

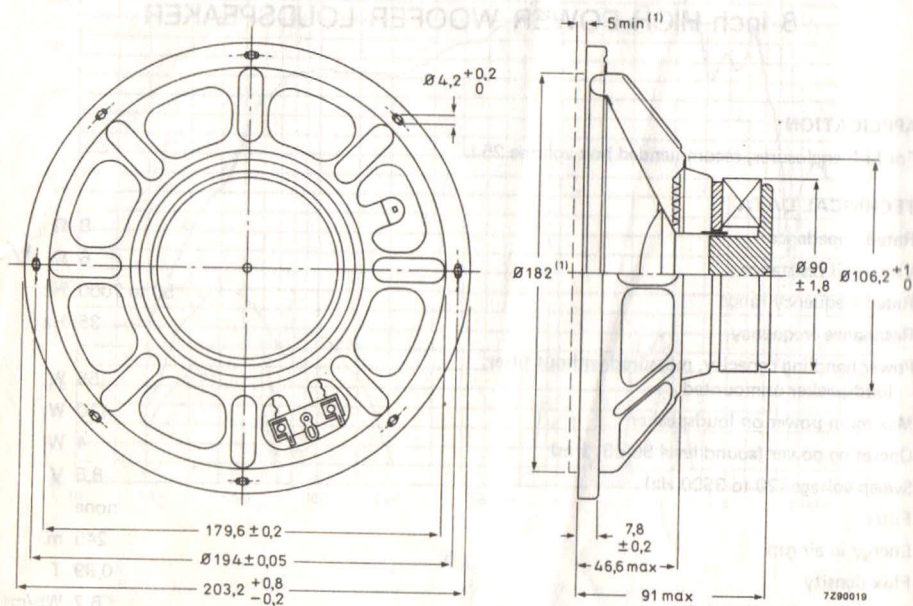


Fig. 1.

(1) Recommended baffle hole ( $\emptyset 182 \text{ mm}$ ) and clearance depth ( $5 \text{ mm}$ ) are required for cone movement at the specified power handling capacity. Recommended box enclosure:  $25 \text{ l}$ . One tag has a red mark to facilitate phase matching.

#### AVAILABLE VERSION

AD80680/W8 catalogue number 2422 257 48922. This number is for bulk-packed loudspeakers.

#### FREQUENCY RESPONSE CURVES (see Fig. 2)

Measured in anechoic room at the operating power. Loudspeaker front mounted on IEC baffle.

Curve a: Sound pressure.

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

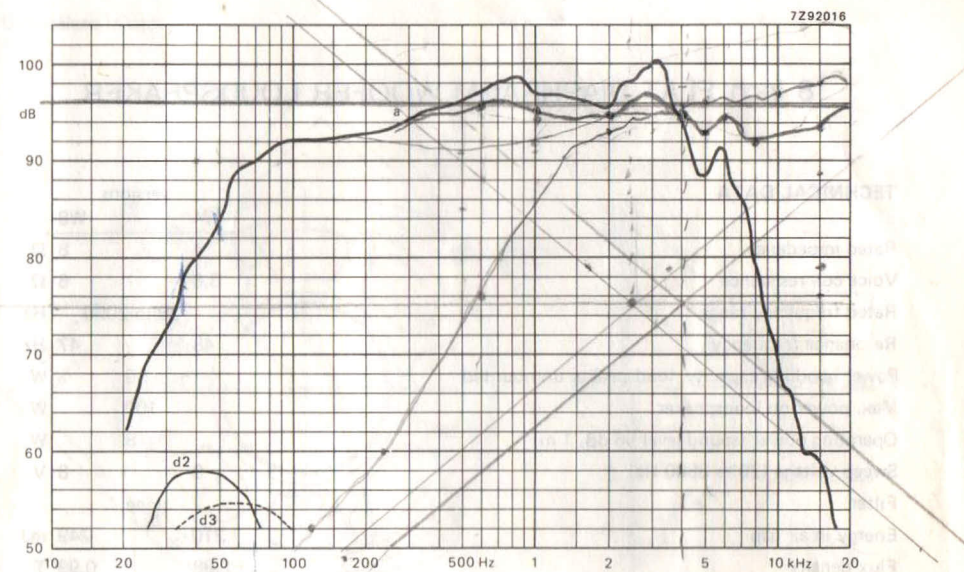


Fig. 2.

$4W = 102 \text{ dB}$   $R = 8 \Omega$   $T$