

DEVELOPMENT SAMPLE DATA

This information is derived from development samples made available for evaluation. It does not necessarily imply that the device will go into regular production.

AD70652/W.

7 INCH HIGH POWER WOOFER LOUDSPEAKER

APPLICATION

For high-fidelity bass reproduction in sealed acoustic enclosure. Recommended volume of enclosure 15 litres. The loudspeaker has a very low distortion.

TECHNICAL DATA

	version	
	W4	W8
Rated impedance	4	8 Ω
Voice coil resistance	3,8	7,5 Ω
Rated frequency range	50 to 4000	
Resonance frequency	44	42 Hz
Power handling capacity, mounted in 15 l sealed enclosure, measured without filter	40	W
Maximum power on loudspeaker	80	W
Operating power	9	W
Sweep voltage, frequency range: 35 to 4000 Hz	5,5	8 V
Maximum excursion voltage at 20 Hz	to be established	
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	13,2	13,2 g
Compliance, loudspeaker unmounted	1,03	1,13 mm/N
Quality factor		
mechanical	4,39	4,36
electrical	0,71	0,95
total	0,61	0,78
Air-gap length	1,2	1 mm
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	1,05	1,05 kg

The loudspeaker has a paper cone and a foam plastic surround. Two tinned 6,3 mm (0,25 inch) tag connectors permit connection to the woofer by plugging or soldering.



Dimensions in mm

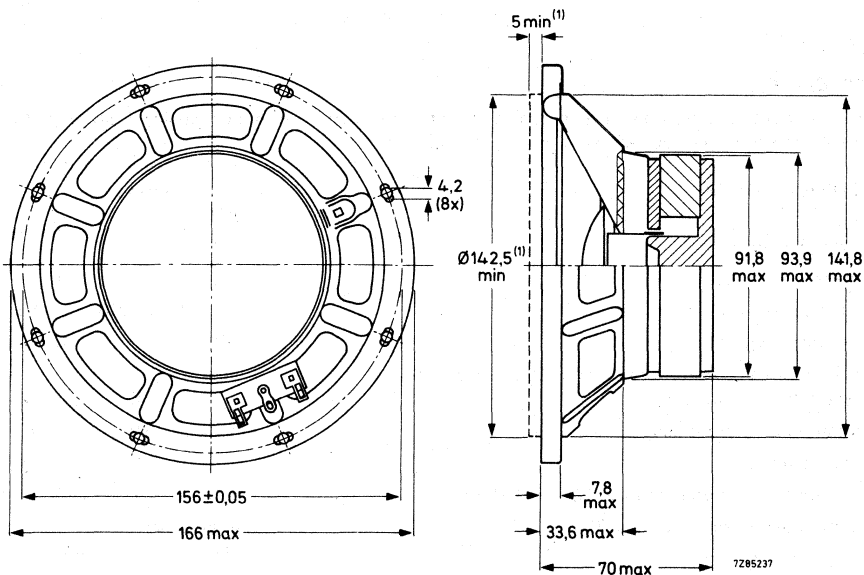


Fig. 1.

(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

AD70652/W4, catalogue number 2422 257 47231

AD70652/W8, catalogue number 2422 257 47232

these numbers apply to bulk packed loudspeakers, minimum packing quantity 12 per unit.

FREQUENCY RESPONSE CURVES (See Fig. 2)

Measured in anechoic room at the operating power. Loudspeaker mounted on IEC baffle according to IEC 268-5 par. 4-4.

Curve a: Sound pressure.

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

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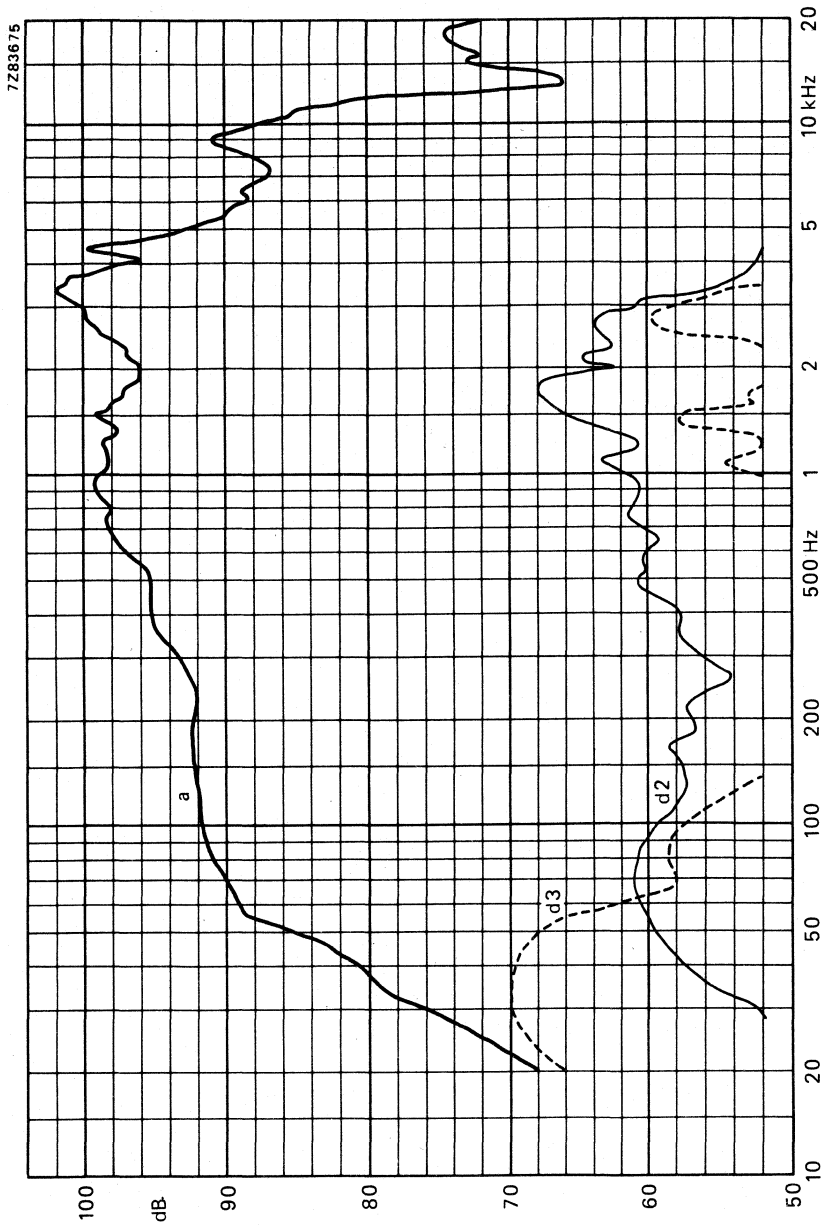


Fig. 2.

