

1 INCH HIGH POWER DOME TWEETER LOUDSPEAKER

APPLICATION

For the reproduction of frequencies from 2000 Hz to 22 000 Hz in multi-way high-fidelity loudspeaker systems. Minimum recommended crossover frequency 2000 Hz with 12 dB/octave slope.

TECHNICAL DATA

	version	
	T4	T8
Rated impedance	4	8 Ω
Voice coil resistance	3,4	6,3 Ω
Rated frequency range	2000 to 20 000 Hz	
Resonance frequency	1450	Hz
Power handling capacities, a/b (see Fig.1), loudspeaker unmounted,		
at 2000 Hz; C = 12 μ F; L = 0,35 mH	20/4	W
at 2000 Hz; C = 8 μ F; L = 0,5 mH		20/4 W
at 4000 Hz; C = 5 μ F; L = 0,2 mH	50/6	W
at 4000 Hz; C = 3,2 μ F; L = 0,35 mH		50/6 W
Operating power		6 W
Sweep voltage, frequency range: 500 to 20 000 Hz high pass filter:		
12 μ F — 0,35 mH	3	V
5 μ F — 0,2 mH		4,5 V
Energy in air gap		59 mJ
Flux density		0,9 T
Air-gap height		2,5 mm
Voice coil height	2,4	3,2 mm
Core diameter		25 mm
Magnet material	ceramic	
diameter		61 mm
mass		0,1 kg
Mass of loudspeaker		0,25 kg

The loudspeaker has an impregnated textile dome and a diffuser integrated in the cover. Connection to the loudspeaker is by means of 2,8 mm (0,11 inch) tag connectors or by soldering.

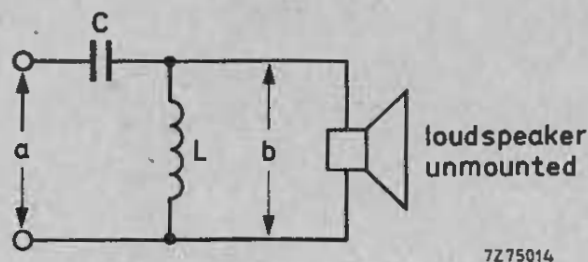


Fig.1 Measuring circuit.

a = system power handling capacity.

b = loudspeaker power handling capacity.

Dimensions (mm)

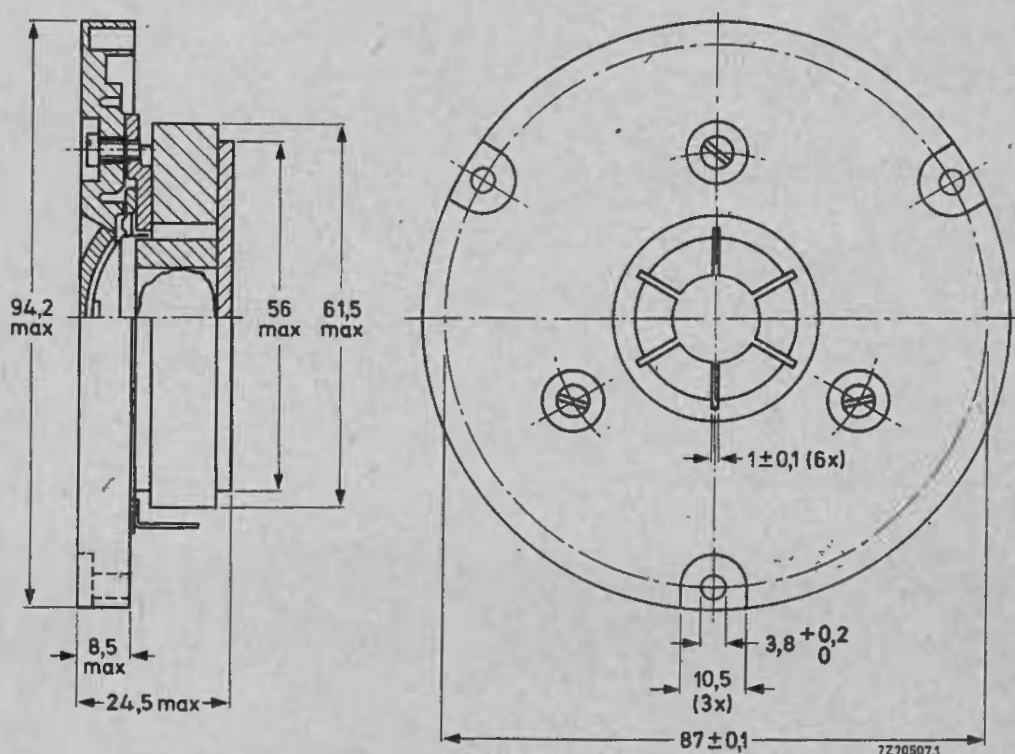


Fig.2

One tag is indicated by a red mark for in-phase connection. Baffle hole diameter 75 mm. Face of loudspeaker should lie in line with plane of baffle.

AVAILABLE VERSIONS

AD0141/T4, catalogue number 2422 257 332.1

AD0141/T8, catalogue number 2422 257 332.2

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

3 = for bulk packing *
7 = for single unit packing.

* Minimum packing quantity 9 per unit.

FREQUENCY RESPONSE CURVES

Curve b: Sound pressure measured in anechoic room, loudspeaker unmounted.

Curve c: 2nd and 3rd harmonic distortion, measured at the operating power of 6 W in anechoic room, loudspeaker unmounted.

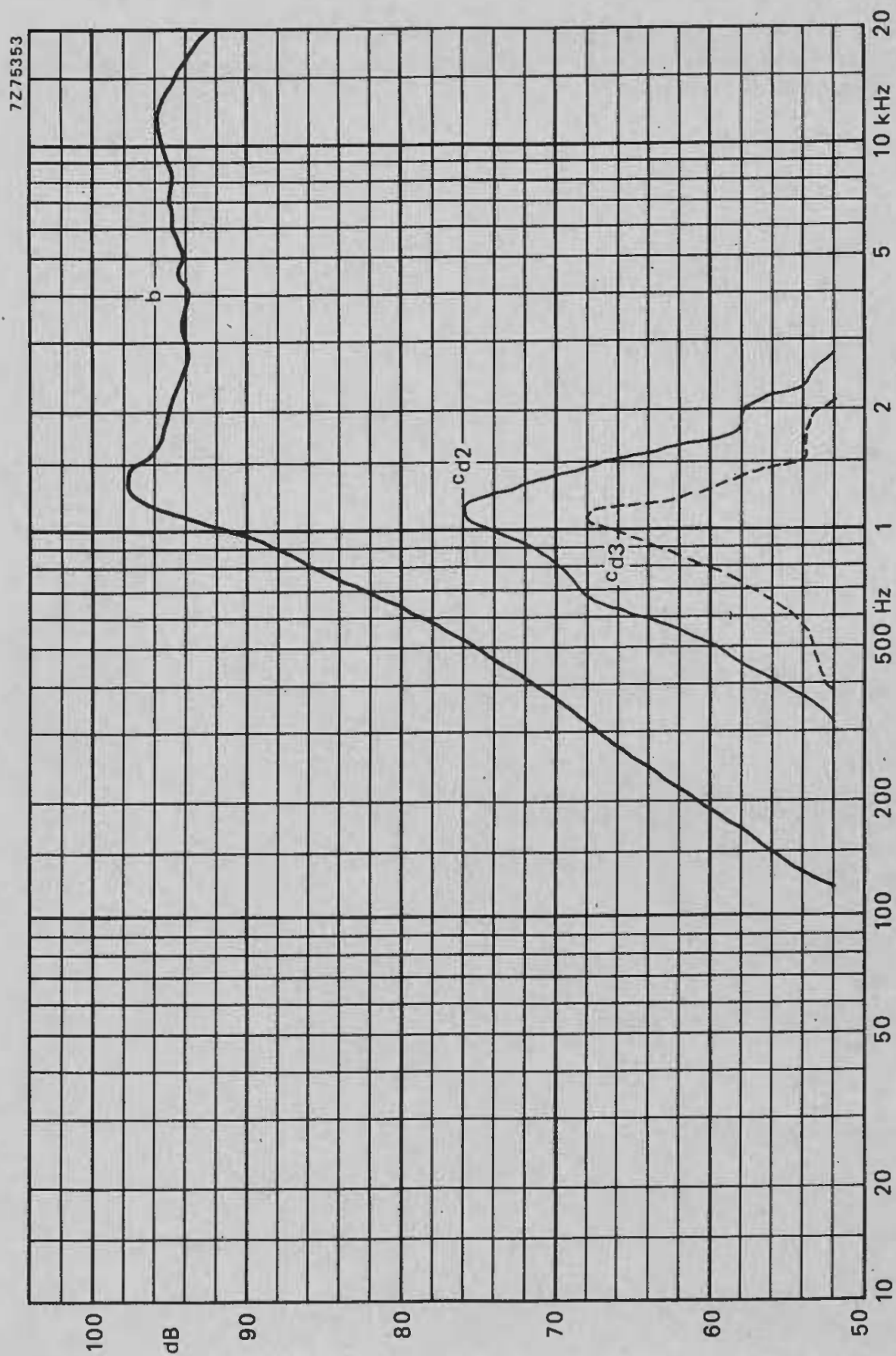


Fig.3