1 inch HIGH POWER DOME TWEETER LOUDSPEAKERS

APPLICATION

For use in direct and indirect radiating systems for reproduction of audio frequencies from 2000 Hz to 22 000 Hz with very low distortion in multi-way high fidelity loudspeaker systems in accordance with DIN45500. Minimum recommended cross-over frequency 1600 Hz. The loudspeaker has a very high sensitivity.

TECHNICAL DATA

	version T8	version T15	
Rated impedance	8	15	Ω
Voice coil resistance	6,3	12,5	Ω
Rated frequency range	2000 to 22 000		Hz
Resonance frequency	1000		Hz
Power handling capacities a/b (see Fig. 1)			
at 2000 Hz C = 8 μF L = 0,5 mH	20/4		W
C = 3,3 μF L = 1 mH		20/4	W
at 4000 Hz C = 3,2 μF L = 0,35 mH	50/6		W
C = 1,5 μF L = 0,8 mH		50/6	W
Operating power	2		W
Sweep voltage frequency range : 500 - 20 000 Hz high pass filter : 8 μF - 0,5 mH	4,5	5,5	V
Energy in air gap	75		mJ
Flux density	1,2		T
Air gap height	2,5		mm
Voice coil height	2,4	3,4	mm
Core diameter	25		mm
Magnet material	ceramic		
diameter	72		mm
mass	0,24		kg
Mass of loudspeaker	0,5		kg

The loudspeaker has a polycarbonate dome and a diffusor integrated in the cover.

Connection to the loudspeaker by means of 2,8 mm (0,11 inch) tag connectors or by soldering.

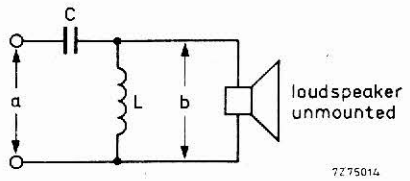

Fig. 1. Measuring circuit.
a = system power handling capacity
b = loudspeaker power handling capacity.

Dimensions (mm)

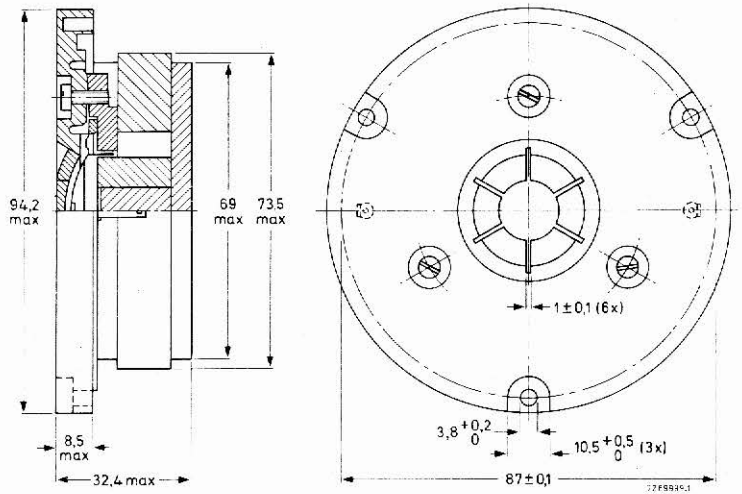

Fig. 2.

One tag is indicated by a red mark for in-phase connection.
Face of loudspeaker should not lie behind plane of baffle.

AVAILABLE VERSIONS

AD0162/T8, catalogue number 2422 257 333.2
AD0162/T15, catalogue number 2422 257 333.3

(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 (see Fig. 3)

Curve b: Sound pressure measured in anechoic room, loudspeaker unmounted. Above 1000 Hz, over the width of one octave, the sound pressure may be a maximum of 2 dB lower than indicated.

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

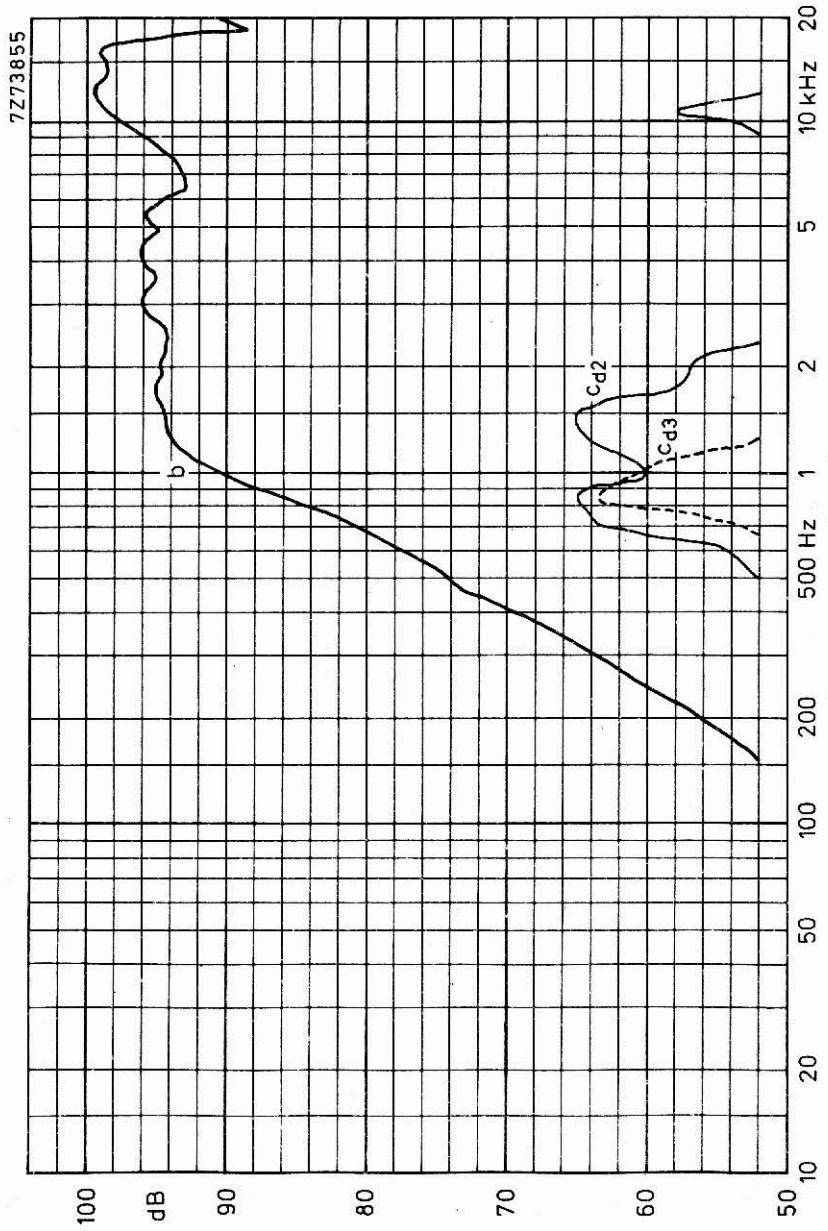
7Z73855
b
c_{d2}
c_{d3}
dB
100
90
80
70
60
50
10
20
50
100
200
500 Hz
1
2
5
10 kHz
20

Fig. 3.