1 INCH HIGH POWER DOME TWEETER LOUDSPEAKER

APPLICATION

For use in direct and indirect radiating systems for reproduction of frequencies from 2000 Hz to 22 000 Hz with very low distortion in multi-way high-fidelity loudspeaker systems in accordance with DIN 45500. Minimum recommended crossover frequency 2000 Hz. The loudspeaker has a very high sensitivity.

TECHNICAL DATA

	version		
	T8	T15	
Rated impedance	8	15	Ω
Voice coil resistance	6,3	12,5	Ω
Rated frequency range	2000 to 22 000		Hz
Resonance frequency	1300		Hz
Power handling capacities, a/b (see Fig.1), loudspeaker unmounted,			
at 2000 Hz; C = 8 μF; L = 0,5 mH	20/4		W
at 2000 Hz; C = 3,3 μF; L = 1 mH		20/4	W
at 4000 Hz; C = 3,2 μF; L = 0,35 mH	50/6		W
at 4000 Hz; C = 1,5 μF; L = 0,8 mH		50/6	W
Operating power	2		W
Sweep voltage, frequency range: 500 to 20 000 Hz high pass filter:			
8 μF – 0,5 mH	4,5		V
3,3 μF – 1 mH		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 an impregnated textile dome and a diffuser integrated in the cover. Connection to the loudspeaker by means of 2,8 mm (0,11 inch) tag connectors or by soldering.
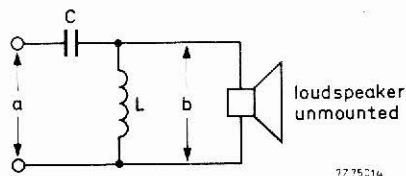
Fig.1 Measuring circuit.
  a = system power handling capacity.
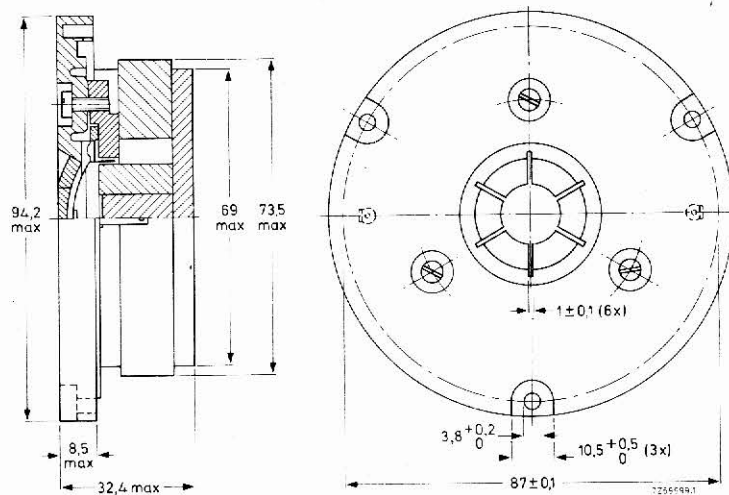 b = loudspeaker power handling capacity.

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

AD0163/T8,   catalogue number 2422 257 334.2

AD0163/T15, catalogue number 2422 257 334.3

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

2 = for bulk packing *
6 = for single unit packing

* Minimum packing quantity 9 per unit.

FREQUENCY RESPONSE CURVES (see Fig. 3)

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

Curve d2: 2nd harmonic distortion, measured at the operating power of 2 W in anechoic room, loudspeaker unmounted.
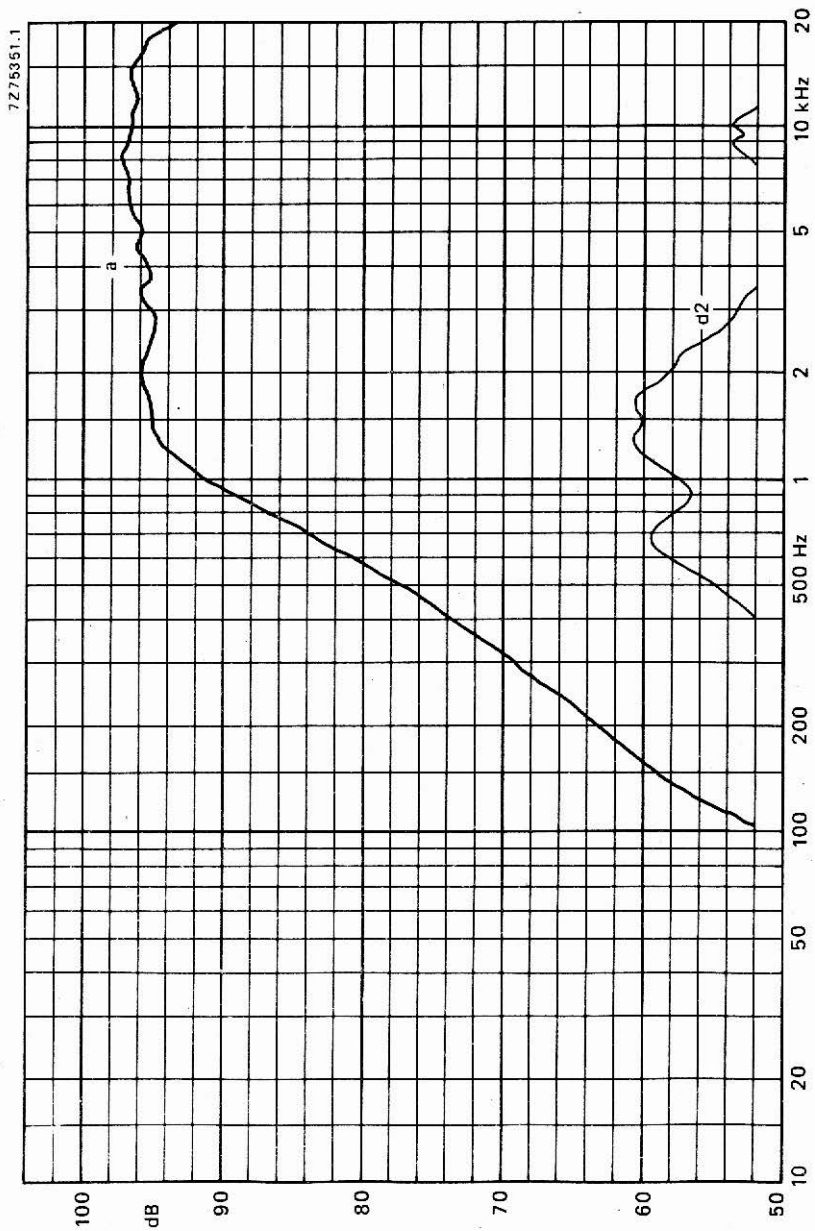
Fig. 3.