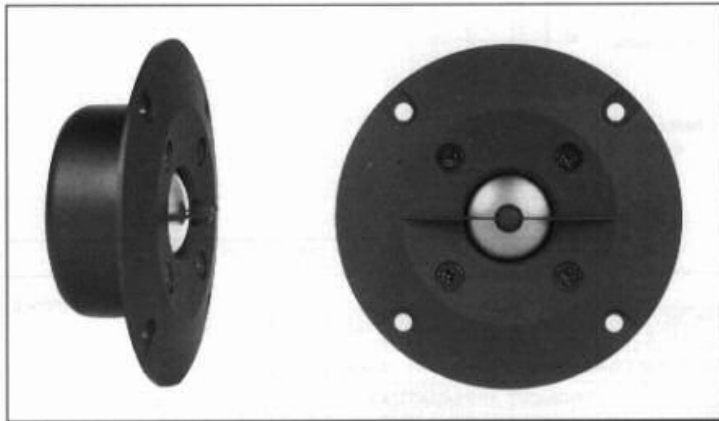


1" - SHIELDED ALUMINIUM ALLOY DOME - 25 mm

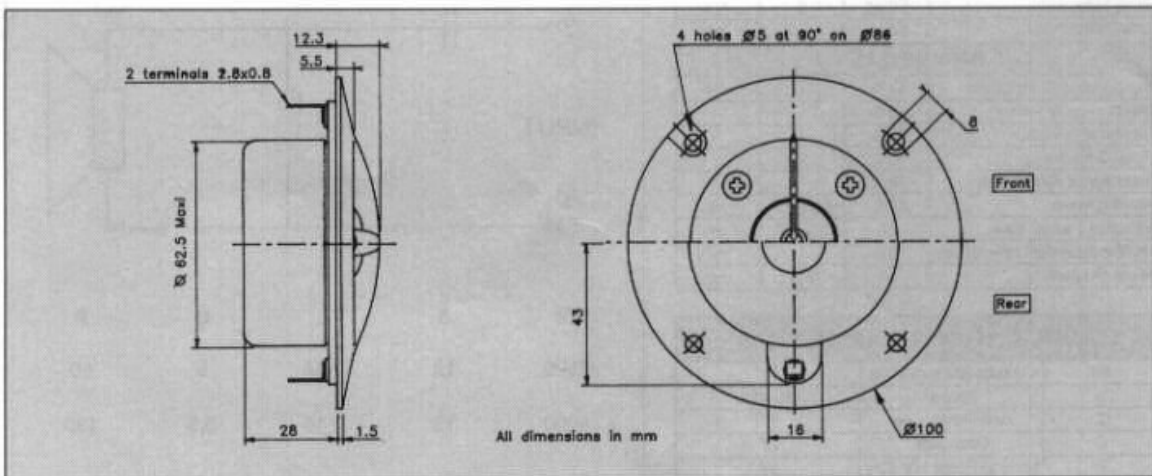
Aluminium alloy dome
Soft polymer suspension
Shielded magnet for audio/video
Vented pole piece - Tuned cavity
Replaceable voice coil assembly
Injected polymer face plate
Ferofluid cooled voice coil

Dôme alliage aluminium
Suspension polymère souple
Anti-magnétique pour audio/vidéo
Noyau ventilé - Cavité accordée
Equipage mobile amovible
Face polymère injectée renforcée
Bobine refroidie par ferrofluide



Aluminium alloy used for this dome offers a good ratio between stiffness, weight and damping. The moving assembly is critically coupled with the face plate geometry, integrating a high precision acoustic lens with an adjusted suspension for optimized diaphragm control. A tuned cavity designed together with a shielded magnet structure reduces the fundamental resonance of the dome. The sound reproduction is dynamic, smooth and detailed. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

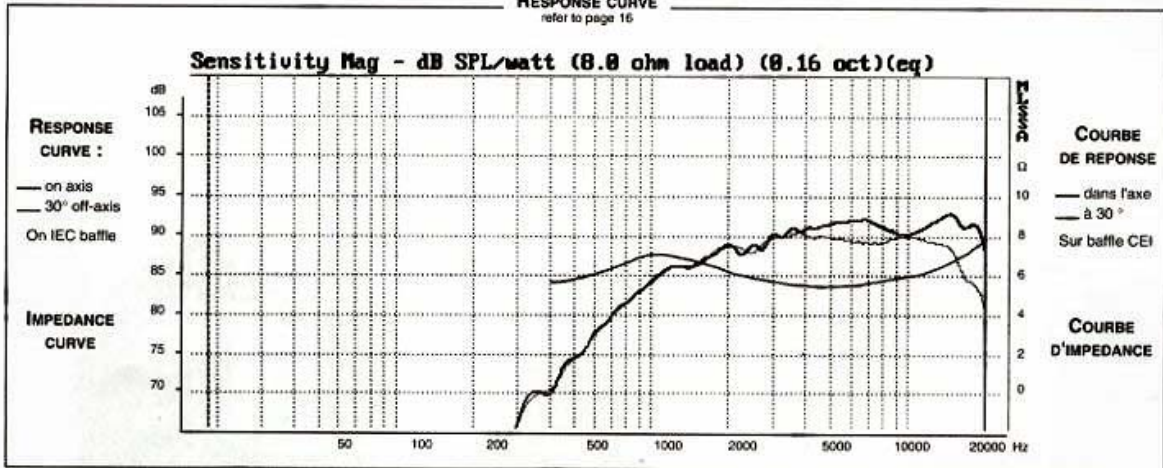
La matière de ce dôme, alliage d'aluminium, offre une très bon ratio poids/rigidité/amortissement. La géométrie de la face avant qui intègre une lentille acoustique très précise et une charge optimisée de la suspension contrôle parfaitement la performance de l'équipage mobile. La structure du moteur, antimagnétique, intègre cavité accordée et bouclier antimagnétique, ce qui a pour effet de réduire la fréquence de résonance. La reproduction sonore est à la fois dynamique, délicate et riche en micro-informations. Il peut être filtré au second ordre (12 dB/Oct) selon le schéma Fig 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



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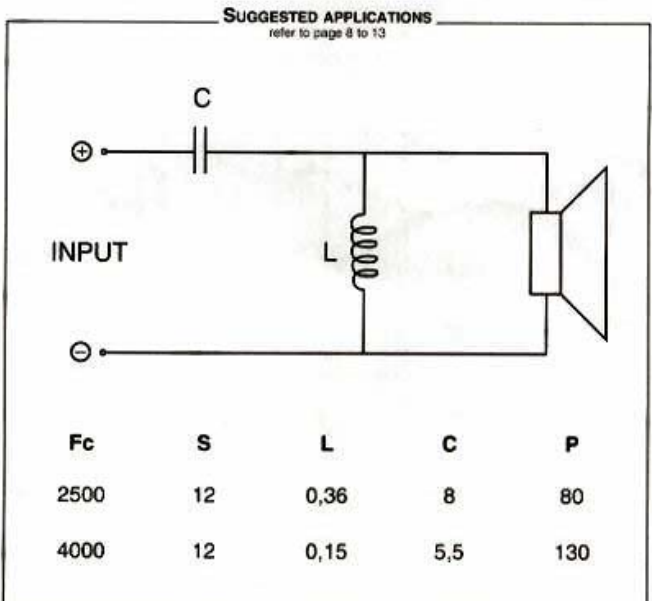
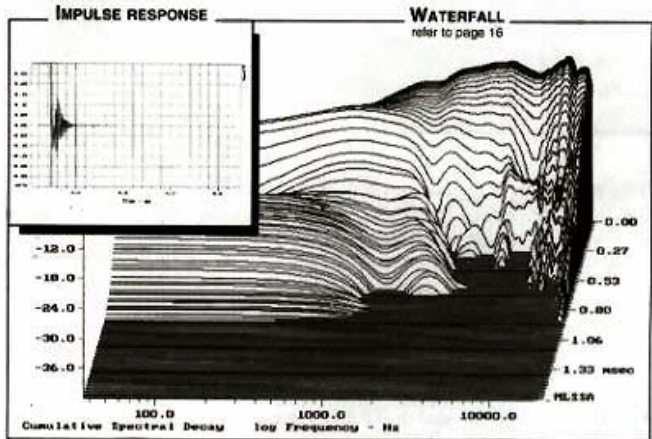
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RESPONSE CURVE
refer to page 16



SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	1150	Hz
Nominal Power Handling	P	80	W
Sensitivity	E	92	dB
VOICE COIL			
Voice coil diameter	Ø	25	mm
Minimum Impedance	Zmin	7	Ω
DC Resistance	Re	5,8	Ω
Voice Coil Inductance	Lbm	25	µH
Voice coil Length	h	1,6	mm
Former	-	Aluminium	-
Number of layers	n	2	-
MAGNET			
Magnet dimensions	Ø x h	(60x10)-(45x9)	mm
Magnet weight	m	0,15	kg
Flux density	B	1,3	T
Force factor	BL	2,2	NA
Height of magnetic gap	He	3	mm
Stray flux	Fmag	8	Am ²
Linear excursion	Xmax	±0,3	mm
PARAMETERS			
Suspension Compliance	Cms	-	mN ⁻¹
Mechanical Q Factor	Qms	-	-
Electrical Q Factor	Qes	-	-
Total Q Factor	Qts	-	-
Mechanical Resistance	Rms	-	kg s ⁻¹
Moving Mass	Mms	0,31.10 ⁻³	kg
Effective Piston Area	S	6,2.10 ⁻⁴	m ²
Volume Equivalent of Air at Cas	Vas	-	m ³
Mass of speaker	M	0,37	kg

APPLICATION PARAMETERS		
Fc	Crossover Frequency	Hz
S	Slope	dB / Oct.
L	Self-inductance	mH
C	Capacitor	µF
P	Nominal Power Handling	W



Please refer to method of measurement and measurement conditions pages 15 to 19.
Audax may, without prior notification modify the specifications on its products further to research and development requirements.