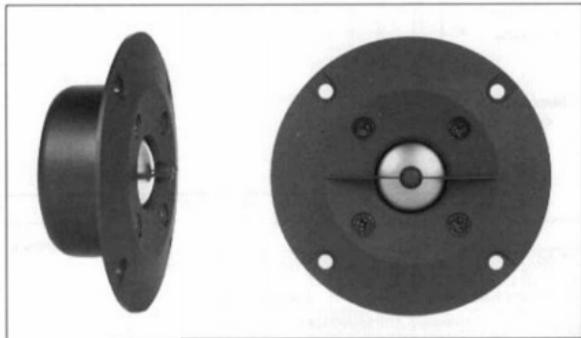


1" - SHIELDED ALUMINIUM ALLOY DOME - 25 mm

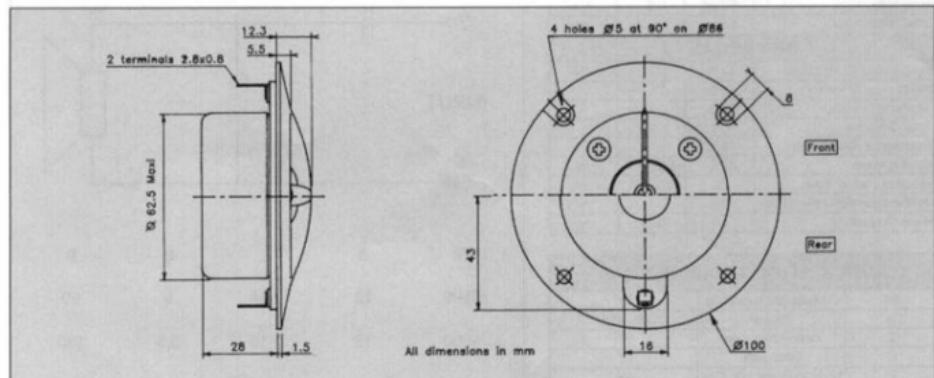
Aluminium alloy dome
 Soft polymer suspension
 Shielded magnet for audio/video
 Vented pole piece - Tuned cavity
 Replaceable voice coil assembly
 Injected polymer face plate
 Ferrofluid cooled voice coil

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.

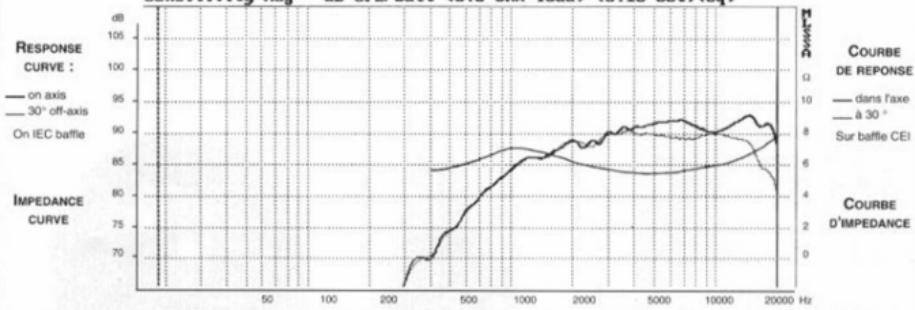
La matière de ce dôme, alliage d'aluminium, offre une très bon ratio poids/rigidité/amortissement. La géométrie de la face avant qui intègre une lentille acoustique très précise et une charge optimisée de la suspension contrôle parfaitement la performance de l'équipage mobile. La structure du moteur, 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.



RESPONSE CURVE

refer to page 16

Sensitivity Mag - dB SPL/mwatt (8.0 ohm load) (0.16 oct)(eq)



SPECIFICATIONS

Technical Characteristics | Symbol | Value | Units

PRIMARY APPLICATION

Nominal Impedance	Z	8	Ω
Resonance Frequency	F _s	1150	Hz
Nominal Power Handling	P	80	W
Sensitivity	E	92	dB

VOICE COIL

Voice coil diameter	\emptyset	25	mm
Minimum Impedance	Z _{min}	7	Ω
DC Resistance	R _e	5,8	Ω
Voice Coil Inductance	L _{bm}	25	μ H
Voice coil Length	h	1,6	mm
Former	-	Aluminium	-
Number of layers	n	2	-

MAGNET

Magnet dimensions	$\emptyset \times h$	80x10(+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	F _{mag}	8	Am ²
Linear excursion	X _{max}	$\pm 0,3$	mm

PARAMETERS

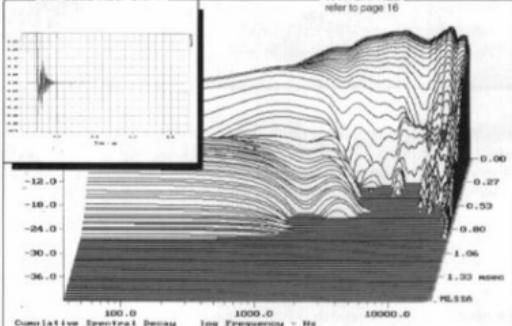
Suspension Compliance	C _{rms}	-	mN ⁻¹
Mechanical Q Factor	Q _{rms}	-	-
Electrical Q Factor	Q _{es}	-	-
Total Q Factor	Q _{ts}	-	-
Mechanical Resistance	R _{rms}	-	kg s ⁻¹
Moving Mass	M _{rms}	0,31.10 ⁻³	kg
Effective Piston Area	S	6,2.10 ⁻⁴	m ²
Volume Equivalent of Air at Cas	V _{as}	-	m ³
Mass of speaker	M	0,37	kg

APPLICATION PARAMETERS

F _c	Crossover Frequency	Hz
S	Slope	dB / Oct.
L	Self-inductance	mH
C	Capacitor	μ F
P	Nominal Power Handling	W

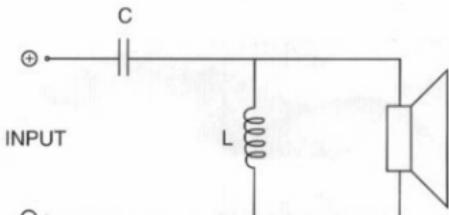
IMPULSE RESPONSE

WATERFALL



SUGGESTED APPLICATIONS

refer to page 8 to 13



F _c	S	L	C	P
2500	12	0,36	8	80
4000	12	0,15	5,5	130