

**AUDAX**

LA PASSION DU HAUT-PARLEUR

**TW025M1**

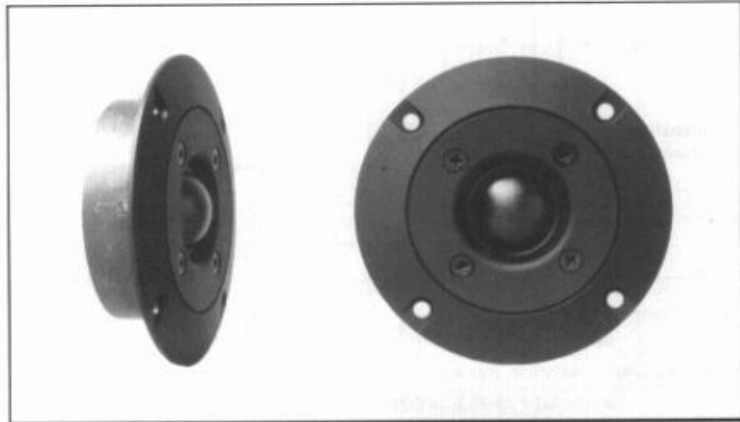
TWEETER

120978A

## 1" - SOFT DOME - 25 mm

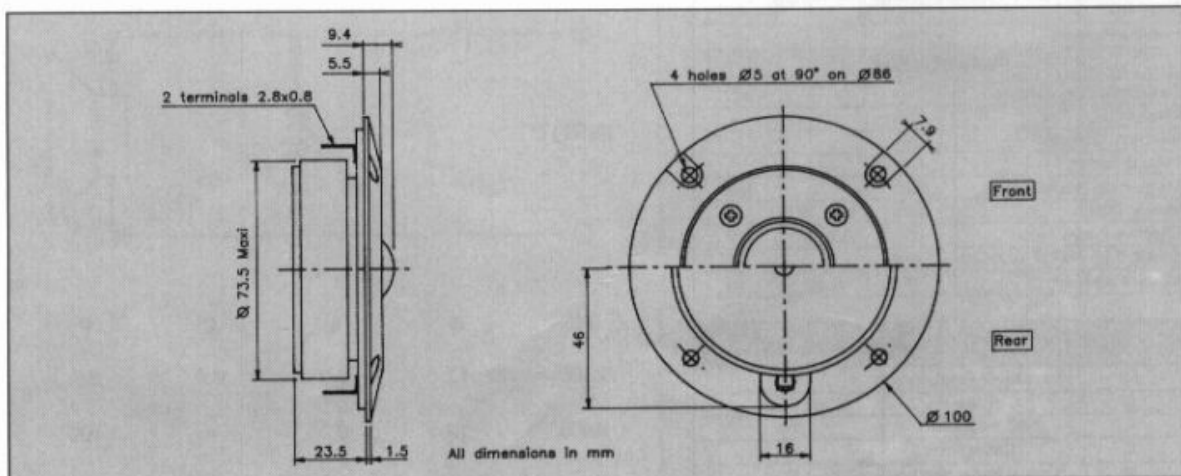
"Catenary" profile  
Replaceable voice coil assembly  
1" impregnated textile dome  
Injected polymer face plate  
reinforced glass fiber  
High efficiency - 92 dB / W/m  
Ferrofluid cooled voice coil

Dôme profil "chainette"  
Equipage mobile interchangeable  
Dôme 25 mm textile  
Face polymère injectée renforcée  
fibre de verre  
Haut rendement - 92 dB / W/m  
Bobine refroidie par ferrofluide



The "catenary" profile on our textile diaphragm provides maximum stiffness at the tip of the dome. The moving mass performs more like a perfect piston with no out of phase break up at the tip. The results are clear, smooth and transparent sound reproduction with high efficiency from 4 kHz to 20 kHz  $\pm 2$  dB and high power handling capacity of 70 Wrms. The carefully designed face plate coupled with this optimized dome provides exceptional linearity. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

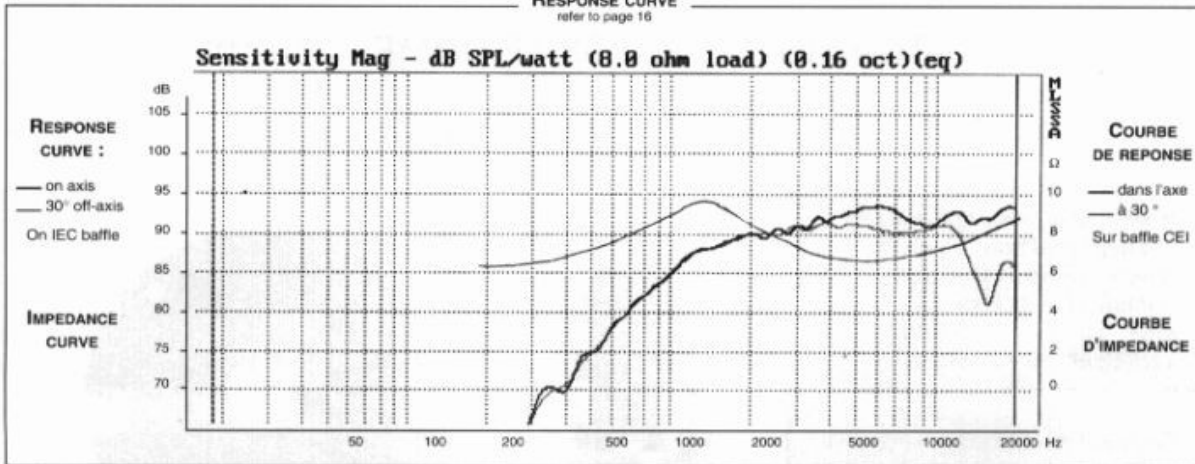
Le profil "chaînette" de ce dôme textile procure une rigidité maximale au sommet du dôme. L'ensemble mobile a donc un comportement proche du piston parfait, sans génération de modes parasites. Il en résulte une reproduction sonore claire, délicate et transparente. Le rendement est élevé (92 dB de 4 kHz à 20 kHz  $\pm 2$  dB, la tenue en puissance confortable (70 W rms). Ce dôme "chaînette" associé à une face soigneusement étudiée permet d'obtenir une réponse d'une linéarité exceptionnelle. 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.



TW025M1 D08TTP0010

120995Z

RESPONSE CURVE  
refer to page 16



### SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
<b>PRIMARY APPLICATION</b>			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	1200	Hz
Nominal Power Handling	P	70	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	13	µH
Voice coil Length	h	1,6	mm
Former	-	Aluminium	-
Number of layers	n	2	-

### MAGNET

Magnet dimensions	Ø x h	72 x 15	mm
Magnet weight	m	0,24	kg
Flux density	B	1,6	T
Force factor	BL	3,1	NA'
Height of magnetic gap	He	3	mm
Stray flux	Fmag	110	Am'
Linear excursion	Xmax	±0,3	mm

### PARAMETERS

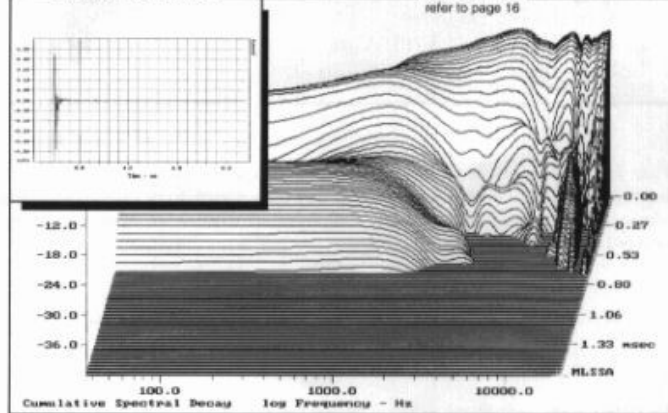
Suspension Compliance	Cms	-	mN'
Mechanical Q Factor	Qms	-	-
Electrical Q Factor	Qes	-	-
Total Q Factor	Qts	-	-
Mechanical Resistance	Rms	-	kg s <sup>-1</sup>
Moving Mass	Mms	0,29.10 <sup>-3</sup>	kg
Effective Piston Area	S	6,2.10 <sup>-4</sup>	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	-	m <sup>3</sup>
Mass of speaker	M	0,46	kg

### APPLICATION PARAMETERS

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

IMPULSE RESPONSE

WATERFALL  
refer to page 16



SUGGESTED APPLICATIONS  
refer to page 8 to 13

