

**AUDAX**

LA PASSION DU HAUT-PARLEUR

**TW025A0**

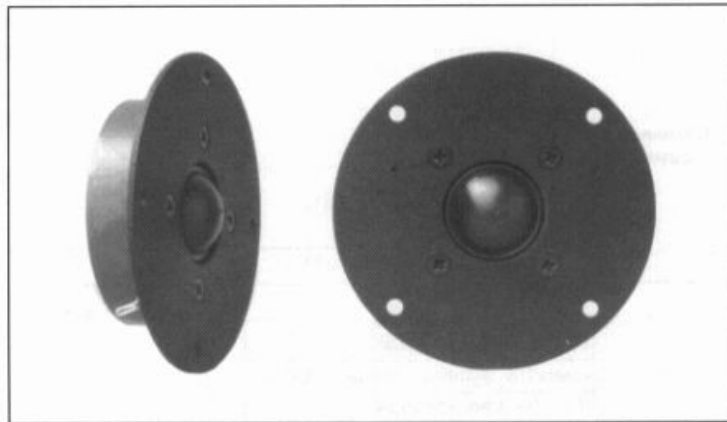
TWEETER

100965W

## 1" - SOFT DOME - 25 mm

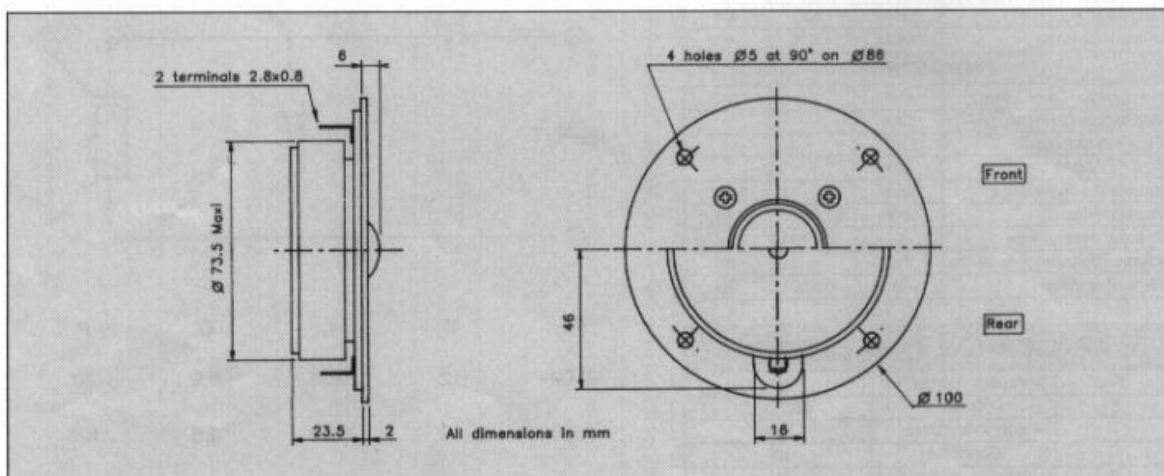
"Catenary" profile  
Extended frequency response  
Replaceable voice coil assembly  
1" impregnated textile dome  
Solid aluminium face plate  
Good efficiency - 90 dB / W/m.

Dôme profil "chainette"  
Bande passante étendue  
Équipage mobile interchangeable  
Dôme 25 mm textile  
Face aluminium massif  
Bon rendement - 90 dB / W/m.



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 good efficiency from 1 kHz to 20 kHz  $\pm 2$  dB and high power handling capacity of 55 Wrms. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

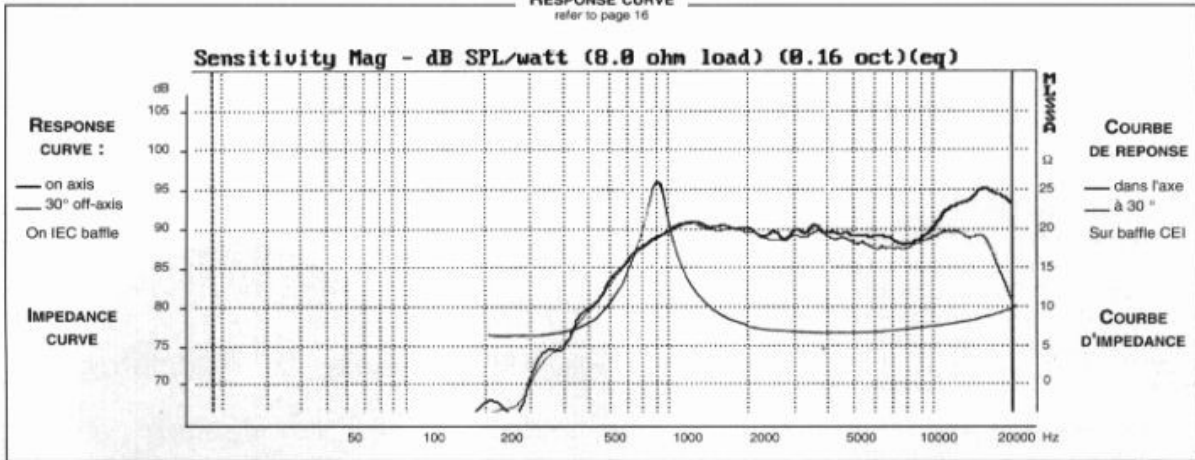
Le profil "chainette" de ce dôme textile procure une rigidité maximale au sommet du dôme. L'ensemble mobile a donc un comportement proche du piston parfait, sans génération de modes parasites. Il en résulte une reproduction sonore claire, délicate et transparente. Le rendement est de 90 dB de 4 kHz à 20 kHz  $\pm 2$  dB, la tenue en puissance confortable (55 W rms). 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.



TW025A0 D08TTP0010

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RESPONSE CURVE  
refer to page 16



**SPECIFICATIONS**

Technical Characteristics	Symbol	Value	Units
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**PRIMARY APPLICATION**

Nominal Impedance	Z	8	$\Omega$
Resonance Frequency	Fs	900	Hz
Nominal Power Handling	P	55	W
Sensitivity	E	90	dB

**VOICE COIL**

Voice coil diameter	$\varnothing$	25	mm
Minimum Impedance	Zmin	6,5	$\Omega$
DC Resistance	Re	5,8	$\Omega$
Voice Coil Inductance	Lbm	11	$\mu$ H
Voice coil Length	h	1,6	mm
Former	-	Aluminium	-
Number of layers	n	2	-

**MAGNET**

Magnet dimensions	$\varnothing$ x h	72 x 15	mm
Magnet weight	m	0,240	kg
Flux density	B	1,5	T
Force factor	BL	2,9	NA <sup>-1</sup>
Height of magnetic gap	He	3	mm
Stray flux	Fmag	110	Am <sup>-1</sup>
Linear excursion	Xmax	$\pm 0,3$	mm

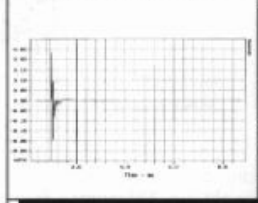
**PARAMETERS**

Suspension Compliance	Cms	-	mN <sup>-1</sup>
Mechanical Q Factor	Qms	-	-
Electrical Q Factor	Qes	-	-
Total Q Factor	Qts	-	-
Mechanical Resistance	Rms	-	kg s <sup>-1</sup>
Moving Mass	Mms	$0,29 \cdot 10^{-4}$	kg
Effective Piston Area	S	$6,2 \cdot 10^{-4}$	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	-	m <sup>3</sup>
Mass of speaker	M	0,46	kg

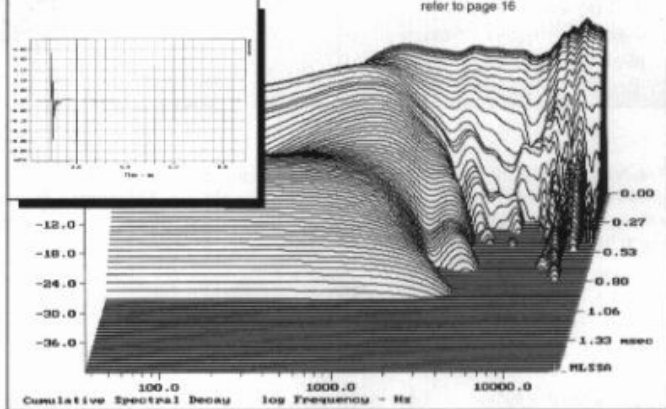
**APPLICATION PARAMETERS**

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

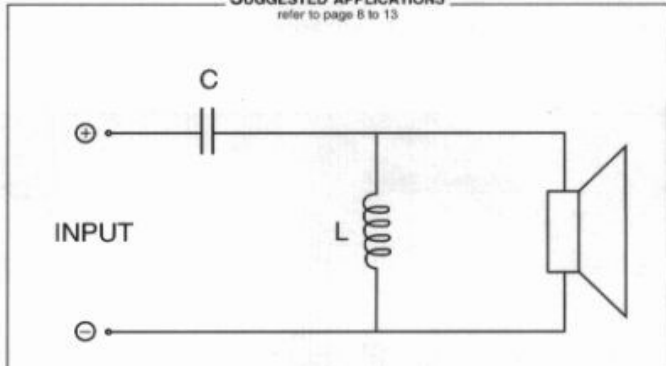
IMPULSE RESPONSE



WATERFALL  
refer to page 16



SUGGESTED APPLICATIONS  
refer to page 6 to 13



Fc	S	L	C	P
2500	12	0,26	6,6	55
4000	12	0,15	5,5	100

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.