AUDAX INDUSTRIES
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TW025A0

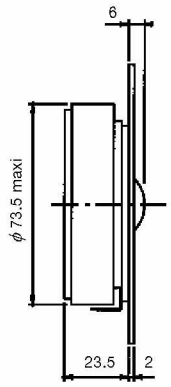
TWEETER

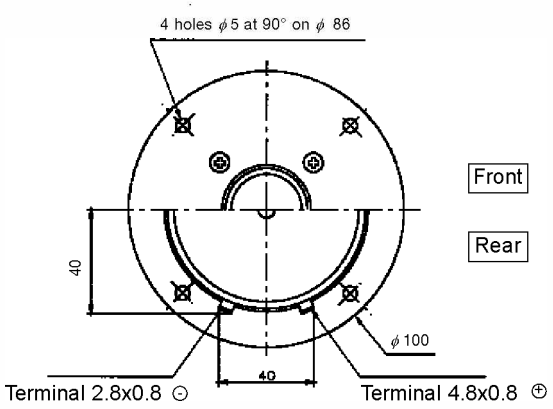
120965W
July '99

TW025A0 D08TTP0010
120971T

1" - Soft dome - 25 mm

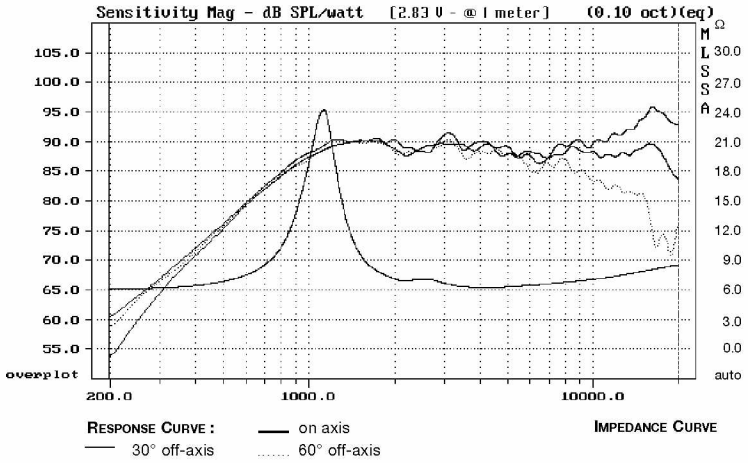
- *Catenary profile*
- *Extended frequency response*
- *Replaceable voice coil assembly*
- *1" impregnated textile dome*
- *Solid aluminium face plate*
- *Good efficiency - 90 dB / W / m*



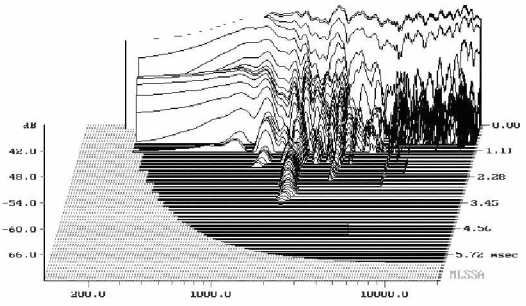


All dimensions in mm

Response Curve



Waterfall



Cumulative Spectral Decay Log Frequency - Hz

SPECIFICATIONS

Technical characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	1090,5	Hz
Nominal Power Handling	P	55	W
Sensitivity (2,83 V - 1m)	E	90	dB
VOICE COIL			
Voice Coil Diameter	ϕ	25	mm
Minimum Impedance	Zmin	6,2	Ω
DC Resistance	Dcr	5,8	Ω
Voice Coil Inductance	Lbm	0,03	mH
Voice Coil Length	h	1,7	mm
Former	-	Aluminium	-
Number of Layers	n	2	-
Wire type	-	round	-
Wire material	-	copper	-

MAGNET			
Magnet Dimensions	ϕ x h	72 x 15	mm
Magnet Weight	m	245	g
Flux Density	B	1	T
Force Factor	BL	-	NA^{-1}
Height of Magnetic Gap	He	3	mm
Stray Flux	Fmag	-	Am^{-1}
Linear Excursion	Xmax	±0,65	mm
PARAMETERS			
Suspension Compliance	Cms	-	µm/N
Mechanical Q Factor	Qms	4,21	-
Electrical Q Factor	Qes	1,3	-
Total Q Factor	Qts	1	-
Mechanical Resistance	Rms	-	kg s^{-1}
Moving Mass	Mms	-	g
Effective Piston Area	S	4,91	cm^2
Volume Equivalent of Air at Cas	Vas	-	liters
Mass of Speaker	M	0,46	kg

Suggested Applications

Crossover Frequency	Slope	Inductance	Capacitor	Power Handling
Hz	dB / Oct.	mH	µF	W
2600	12	0,5	7,5	55
5460	6	-	4,7	100

AUDAX
LA PASSION DU HAUT-PARLEUR

TW025A0

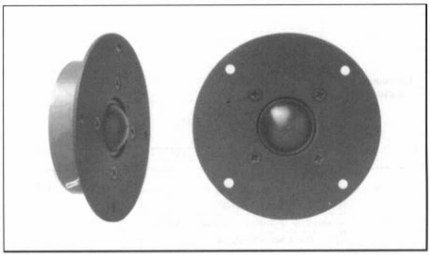
TWEETER

100965W

1" - SOFT DOME - 25 mm

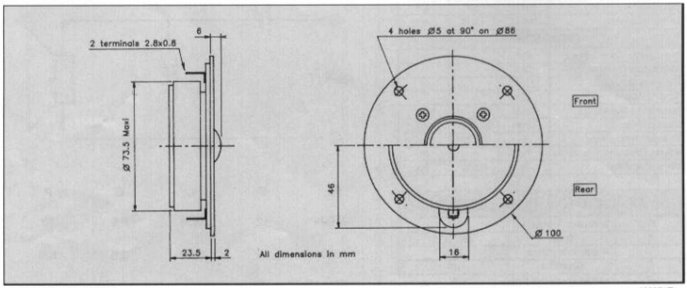
"Catenary" profile
Extented frequency response
Replaceable voice coil assembly
1" impregnated textile dome
Solid aluminium face plate
Good efficiency - 90 dB / W/m.

Dôme profil "chainette"
Bande passante étendue
Equipage 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 ± 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.

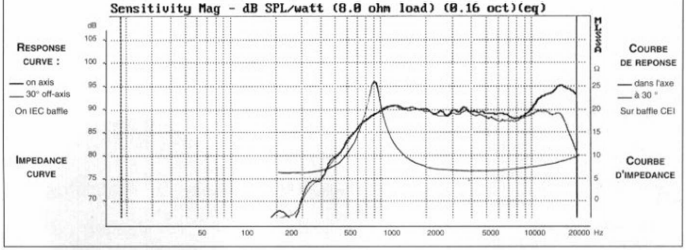
Le profil "chainette" de ce dôme textile procure une rigidité maximale au sommet du dôme. L'ensemble mobile a donc une comportement proche du piston parfait, sans génération de modes parasites. Il en résulte une reproduction sonore claire, délicate et transparente. Le rendement est de 90 dB de 4 kHz à 20 kHz ± 2 dB, la tenue en puissance confortable (55 W rms). Il peut être filtré au second ordre (12 dB/Oct) selon le shéma Fig 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



TW025A0

TWEETER

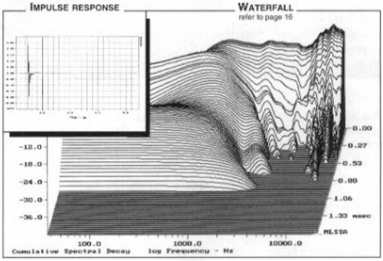
RESPONSE CURVE
refer to page 16



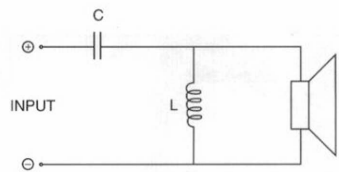
SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	900	Hz
Nominal Power Handling	P	55	W
Sensitivity	E	90	dB
VOICE COIL			
Voice coil diameter	Ø	25	mm
Minimum Impedance	Zmin	6,5	Ω
DC Resistance	Re	5,8	Ω
Voice Coil Inductance	Lbm	11	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	0,240	kg
Flux density	B	1,5	T
Force factor	BL	2,9	NA^{-1}
Height of magnetic gap	He	3	mm
Stray flux	Fmag	110	Am^{-1}
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	$0,29.10^{-3}$	kg
Effective Piston Area	S	$6,2.10^{-4}$	m^2
Volume Equivalent of Air at Cas	Vas	-	m^3
Mass of speaker	M	0,46	kg

IMPULSE RESPONSE — **WATERFALL**
refer to page 16



SUGGESTED APPLICATIONS
refer to page 8 to 13



APPLICATION PARAMETERS

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

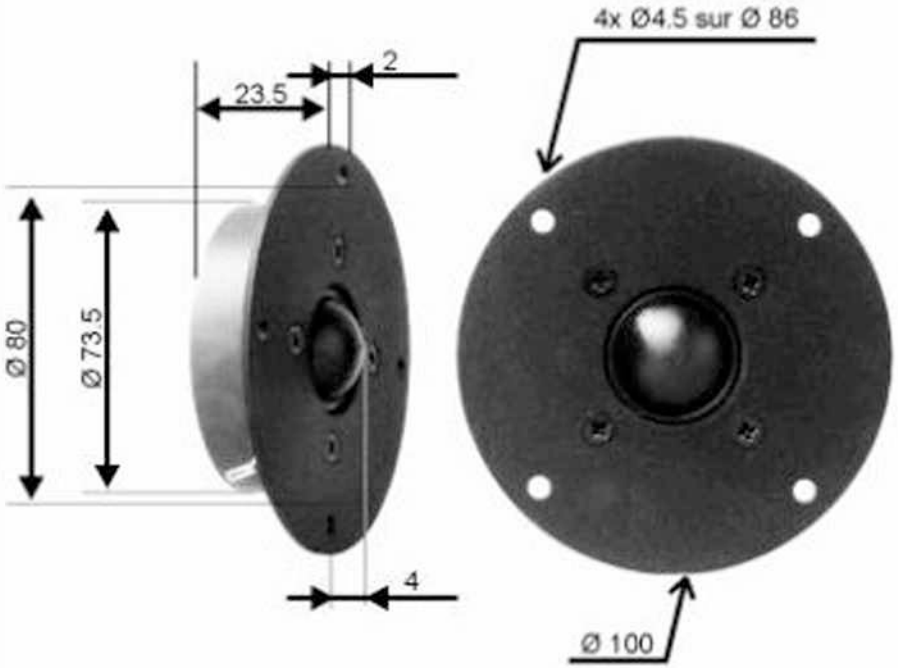
Fc	Crossover Frequency	Hz
S	Slope	dB / Oct.
L	Self-inductance	mH
C	Capacitor	µF
P	Nominal Power Handling	W

Please refer to method of measurement and measurement conditions pages 15 to 19.

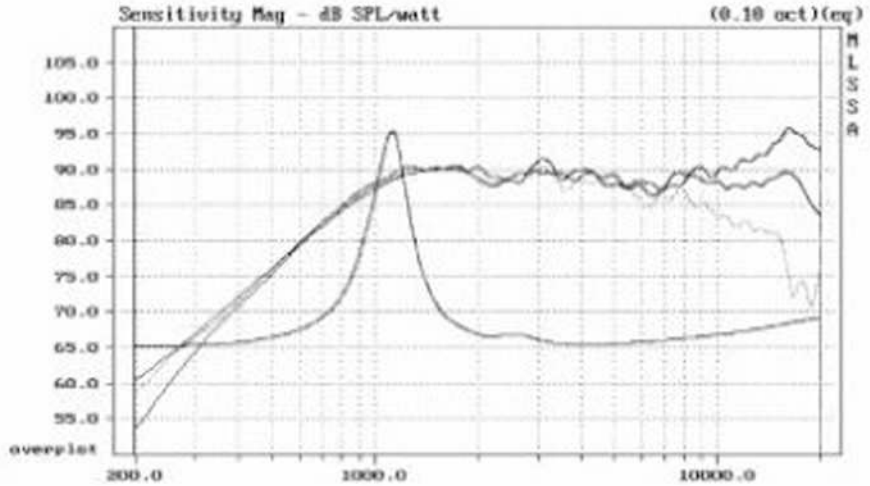
AUDAX INDUSTRIES

Tweeter dome textile 25mm - 8 ohms

TW025A0

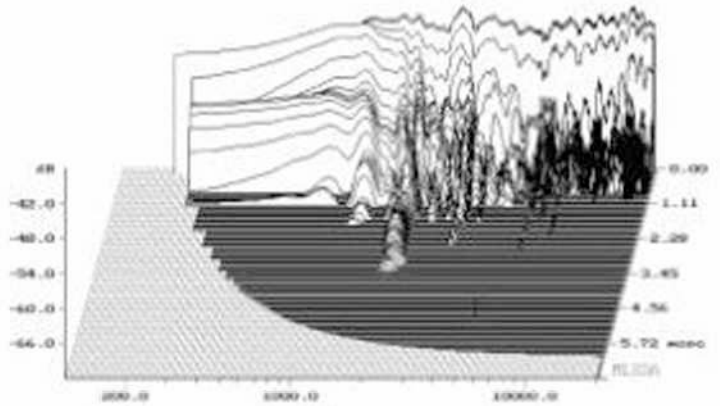


Le dome textile profilé et imprégné apporte à ce tweeter une bonne sensibilité et une écoute "neutre"



Impédance	8 ohms	Diamètre bobine	25 mm
Résonance	900 Hz	Hauteur bobine	1.6 mm
Puissance nominale (IEC)	55 W	Support	aluminium
Sensibilité (2.83V/1m)	90.0 dB	Nb. couches	2
Résistance (DC)	5.8 ohms	Membrane	textile imprégné
Inductance	0.011 mH	Saladier	aluminum
Xmax	± 0.30 mm	Poids	460 gr

Equipage mobile remplacable (RW025A0)



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