AUDAX

LA PASSION DU HAUT-PARLEUR

TW025M3

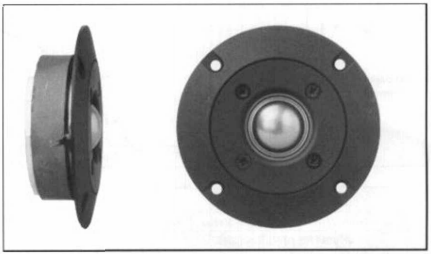
TWEETER

100814N

1" - TITANIUM COMPOSITE DOME - 25 mm

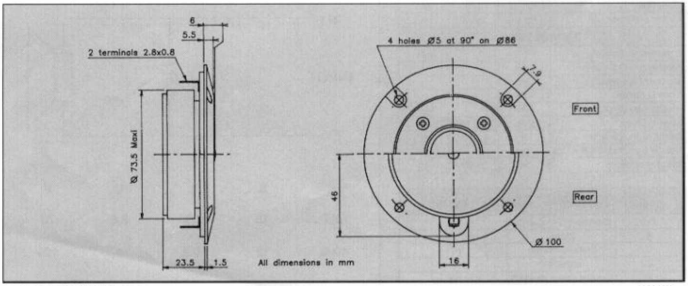
Replaceable voice coil assembly
Ion deposited pure Titanium
Injected polymer face plate
reinforced glass fiber
High efficiency : 93 dB/W/m
Ferrofluid cooled voice coil

Equipage mobile interchangeable
Titane pur déposé sous vide
Face polymère injectée
renforcée fibre de verre
Haut rendement : 93 dB/W/m
Bobine refroidie par ferrofluide



Pure Titanium is ion deposited onto an advanced soft polymer 1" diaphragm. The composite created offers increased stiffness with high internal damping, combining advantages of pure metal domes while retaining the low distortion of soft domes. The result is a detailed and musical sound reproduction Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

Le dépôt sous vide d'une couche de Titane pur améliore la rigidité du dôme tout en préservant l'amortissement du dôme souple. Ce tweeter bénéficie ainsi d'une reproduction musicale et dynamique.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.

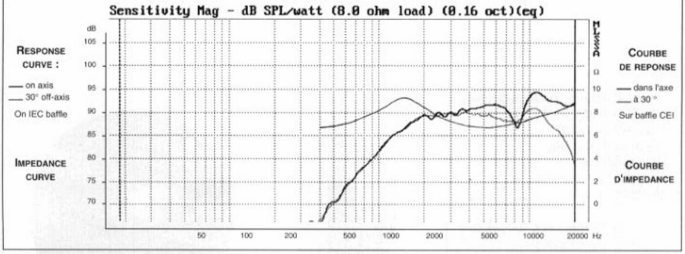


TW025M3

TWEETER

RESPONSE CURVE

refer to page 16



SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	1500	Hz
Nominal Power Handling	P	70	W
Sensitivity	E	93	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^{-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	$0,31.10^{-3}$	kg
Effective Piston Area	S	$6,2.10^{-4}$	m^2
Volume Equivalent of Air at Cas	Vas	-	m^3
Mass of speaker	M	0,48	kg

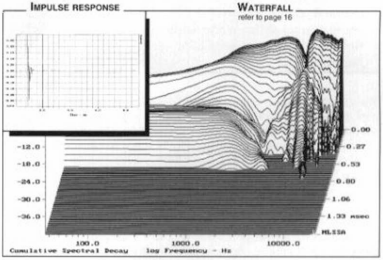
APPLICATION PARAMETERS

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

IMPULSE RESPONSE

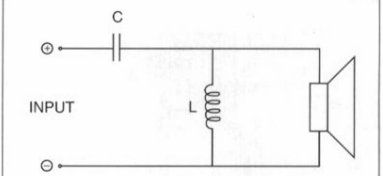
WATERFALL

refer to page 16



SUGGESTED APPLICATIONS

refer to page 8 to 13



Fc	S	L	C	P
2500	12	0,36	6,6	70
4000	12	0,2	4	120

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