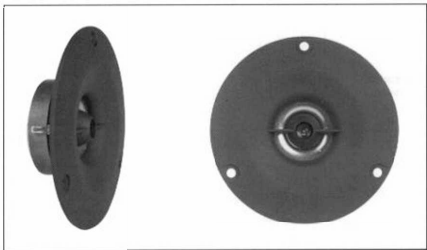


## 14 mm TITANIUM COMPOSITE DOME

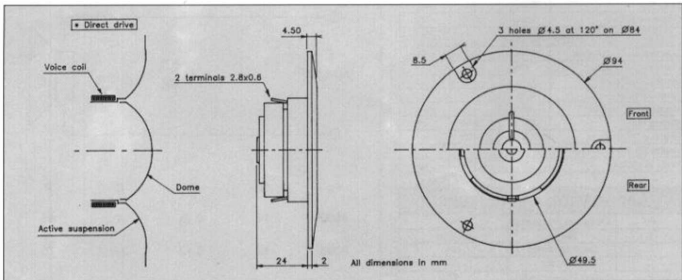
Ion deposited pure Titanium  
96 dB very high efficiency *direct drive*\*  
Ferrofluid - cooled voice coil  
High power handling capability  
High dynamic characteristics

Titane pur déposé sous vide  
Concept *direct drive*\*  
Très haut rendement 96 dB  
Bobine refroidie par ferrofluide  
Puissance admissible importante  
Grande capacité dynamique



Pure Titanium is ion deposited onto 14 mm Polymer diaphragm. The composite created offers increased stiffness. Ultra light moving parts with the voice coil directly wound onto the diaphragm according to the "direct drive" concept. The perfect transfer of energy is the source of its musical qualities, high definition and high efficiency. The voice coil wound onto the high temperature polymer is cooled with ferrofluid for high power handling. Easily coupled with 2nd order crossover as shown Fig 1. Two crossover points are suggested for adequate power handling.

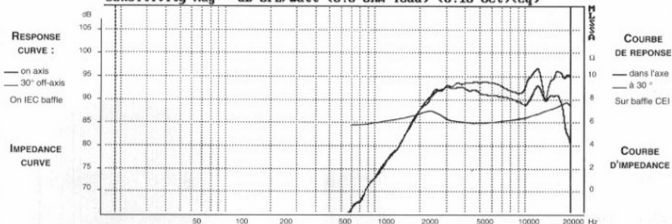
Compact, ce tweeter à dôme de 14 mm bénéficie du dépôt sous vide d'une couche de Titane pur qui améliore sensiblement la définition dans le haut du spectre. Il doit la légèreté de son équipement mobile à son concept "direct drive" par lequel la bobine est réalisée directement sur le diaphragme. Le parfait transfert d'énergie est à l'origine de ses qualités musicales, de sa haute définition et de son haut rendement. Le concept "direct drive" couplé à la bobine refroidie par ferrofluide lui confère une puissance admissible importante dans sa catégorie. 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/watt (8.0 ohm load) (0.16 oct)(eq)



### SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
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#### PRIMARY APPLICATION

Nominal Impedance	Z	8	$\Omega$
Resonance Frequency	Fs	2050	Hz
Nominal Power Handling	P	45	W
Sensitivity	E	96	dB

#### VOICE COIL

Voice coil diameter	$\varnothing$	14	mm
Minimum Impedance	Zmin	7,2	$\Omega$
DC Resistance	Re	5,7	$\Omega$
Voice Coil Inductance	Lbm	37	$\mu$ H
Voice coil Length	h	2	mm
Former	-	Polymer	-
Number of layers	n	2	-

#### MAGNET

Magnet dimensions	$\varnothing$ x h	45 x 9	mm
Magnet weight	m	0,053	kg
Flux density	B	1,51	T
Force factor	BL	2	NA'
Height of magnetic gap	He	1,5	mm
Stray flux	Fmag	36	Am'
Linear excursion	Xmax	$\pm 0,25$	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	$0,19 \cdot 10^{-3}$	kg
Effective Piston Area	S	$6,6 \cdot 10^{-4}$	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	-	m <sup>3</sup>
Mass of speaker	M	0,095	kg

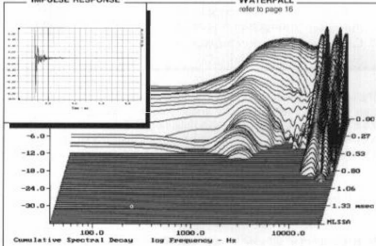
### APPLICATION PARAMETERS

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

### IMPULSE RESPONSE

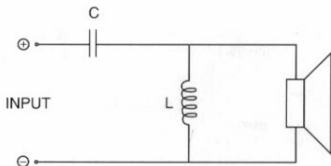
### WATERFALL

refer to page 16



### SUGGESTED APPLICATIONS

refer to page 8 to 13



Fc	S	L	C	P
4800	12	0,15	4	45
6000	12	0,12	3,3	70

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.