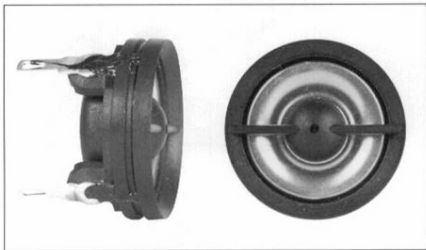


### Micro 10 mm Neodymium GOLD DOME

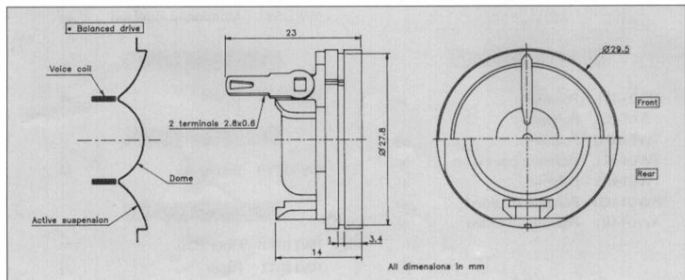
Ion deposited pure gold  
 Ultra compact (ø 29,5mm)  
 Ultra-light weight (10g)  
 Balanced drive concept design\*  
 Ferrofluid - cooled voice coil  
 Extended frequency response  
 Ultra-light moving parts  
 Encapsulated neodymium magnet

Or pur déposé sous vide  
 Ultra compact (ø 29,5mm)  
 Ultra léger (10g)  
 Concept balanced drive\*  
 Bobine refroidie par ferrofluide  
 Bande passante étendue  
 Equipage mobile ultra léger  
 Aimant néodyme surmoulé



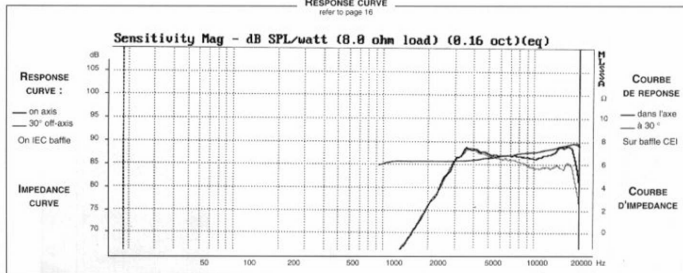
Keeping the performance of the well-known Audax 10 mm tweeters while reducing size to the extreme can be quite a challenge. It is however achieved with the new Micro 10 tweeter, a combination of proven Audax know-how and latest technologies : high precision magnet system, rare earth magnet(neodymium-iron-boron), pure (24 carats) gold ion deposit adding stiffness, damping and high frequencies definition, ultra light moving parts with formless voice coil piston area equally divided between dome and active suspension("balanced drive" concept). Its amazing size (<10cc) and weight (10 g) without compromise on performance make it an ideal choice for a growing number of applications where these factors are essential : automotive, multimedias, telecommunications, HDTV and home theaters. A special bezel has been designed to provide easy mounting of this tweeter into compact Hi-Fi systems (refer to page 265). Easily coupled with 1st order crossover as shown in Fig. 1 or with 2nd order for increased power handling.

Aboutissement d'une miniaturisation poussée, tout en conservant les performances de tweeters 5 fois plus lourds, ce tweeter à dôme de 10 mm bénéficie des technologies les plus récentes : usinage de précision du système magnétique, aimant terres rares néodyme-fer-bore, dépôt sous vide d'or pur (24 carats) pour améliorer la définition dans le haut du spectre. Il doit l'extrême légèreté de son équipement mobile à sa bobine sans support. La surface émissive est équilibrée entre le dôme et la suspension active, son extrême compacité (<10cm<sup>3</sup>) et son poids plume (10 g) en font un "must" pour les applications de plus en plus nombreuses où encombrement et poids sont des facteurs déterminants : automobile, système multimédia, télécommunications, TVHD, haute fidélité compacte. Une pièce spécifique a été conçue afin de permettre un montage aisé de ce tweeter dans une enceinte Hi Fi (voir page 265). Il peut être filtré au premier ordre comme proposé sur le schéma Fig. 1 ou au 2ème ordre pour une augmentation de la tenue en puissance.



**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	3000	Hz
Nominal Power Handling	P	25	W
Sensitivity	E	87	dB

### VOICE COIL

Voice coil diameter	$\varnothing$	10	mm
Minimum Impedance	Zmin	6,4	$\Omega$
DC Resistance	Re	5,5	$\Omega$
Voice Coil Inductance	Lbm	32	$\mu$ H
Voice coil Length	h	2	mm
Former	-	-	-
Number of layers	n	2	-

### MAGNET

Magnet dimensions	$\varnothing$ x h	9,5 x 2	mm
Magnet weight	m	-	kg
Flux density	B	1	T
Force factor	BL	1,1	NA <sup>-1</sup>
Height of magnetic gap	He	2	mm
Stray flux	Fmag	1,2	Am <sup>-1</sup>
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	$0,11 \cdot 10^{-3}$	kg
Effective Piston Area	S	$3,14 \cdot 10^{-4}$	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	-	m <sup>3</sup>
Mass of speaker	M	0,01	kg

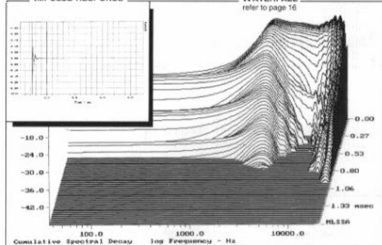
## APPLICATION PARAMETERS

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

### IMPULSE RESPONSE

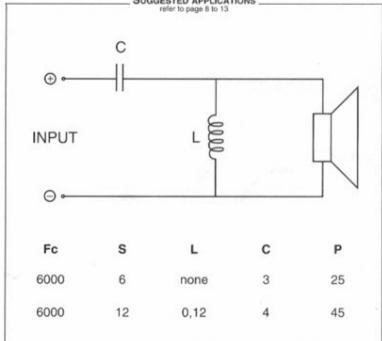
### WATERFALL

refer to page 16



### SUGGESTED APPLICATIONS

refer to page 8 to 13



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.