

**AUDAX**

LA PASSION DU HAUT-PARLEUR

**TW014F1**

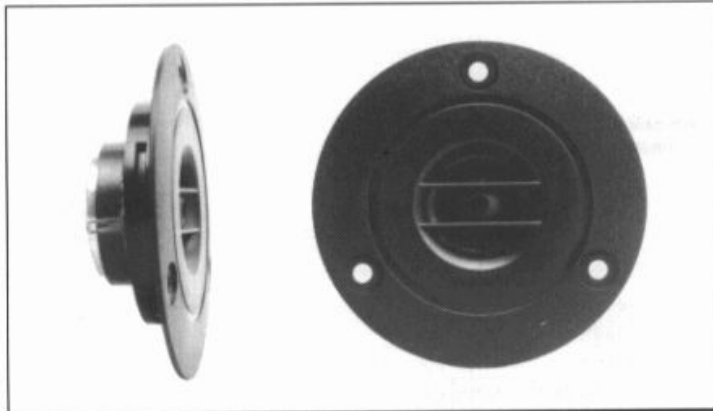
TWEETER

100809R

## 14 mm POLYMER DOME

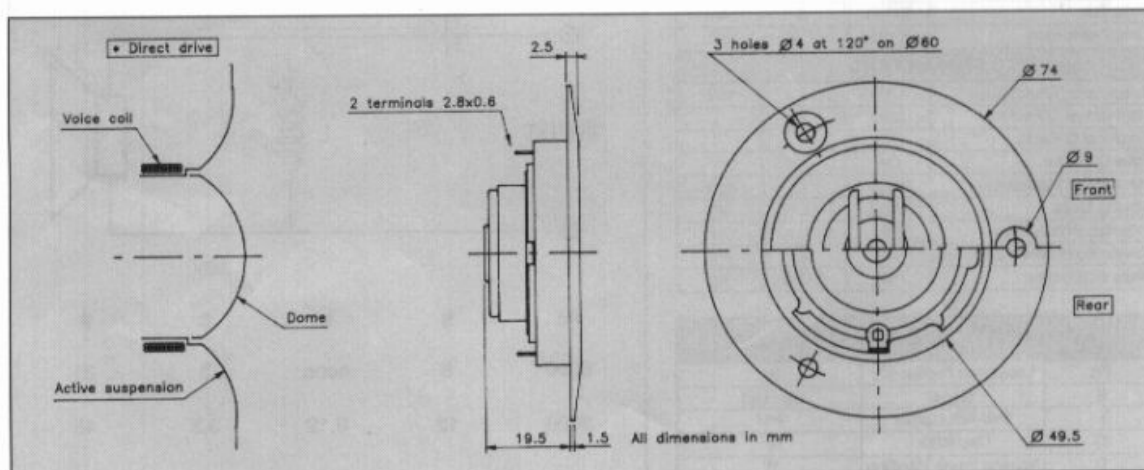
91 dB high efficiency *direct drive*\*  
Ferrofluid - cooled voice coil  
High power handling capability  
High dynamic characteristics

Concept *direct drive*\*  
Haut rendement 91 dB  
Bobine refroidie par ferrofluide  
Puissance admissible importante  
Grande capacité dynamique



Compact, 14 mm polymer dome tweeter. 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.

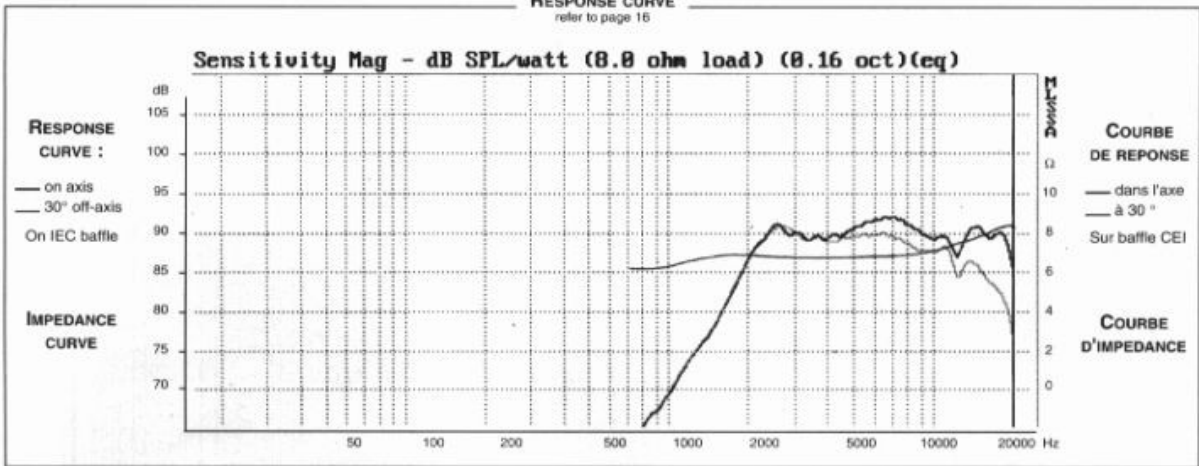
Compact, ce tweeter à dôme de 14 mm en polymère doit la légèreté de son équipement mobile à son concept "direct drive" par lequel la bobine est réalisée directement sur le diaphragme. Le parfait transfert d'énergie est à l'origine de ses qualités musicales, de sa haute définition et de son haut rendement. 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.



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100836S

RESPONSE CURVE  
refer to page 15



**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	91	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	43	$\mu$ H
Voice coil Length	h	2	mm
Former	-	Polymer	-
Number of layers	n	2	-

**MAGNET**

Magnet dimensions	$\varnothing$ x h	32 x 6	mm
Magnet weight	m	0,017	kg
Flux density	B	1,25	T
Force factor	BL	16	NA <sup>-1</sup>
Height of magnetic gap	He	1,5	mm
Stray flux	Fmag	15	Am <sup>-1</sup>
Linear excursion	Xmax	$\pm 0,25$	mm

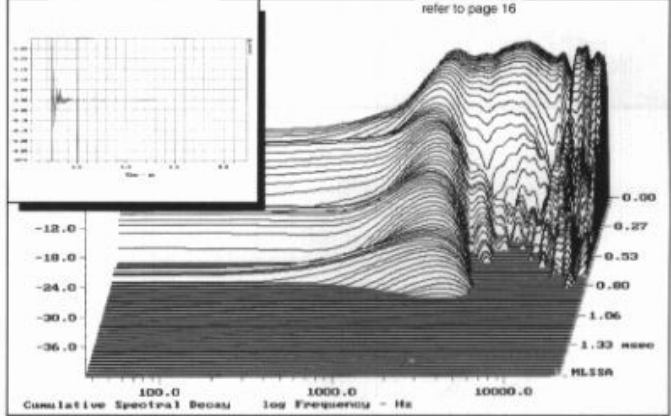
**PARAMETERS**

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	$0,19 \cdot 10^{-3}$	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	0,064	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

