

AUDAX

LA PASSION DU HAUT-PARLEUR

TW014B5

TWEETER

100952Q

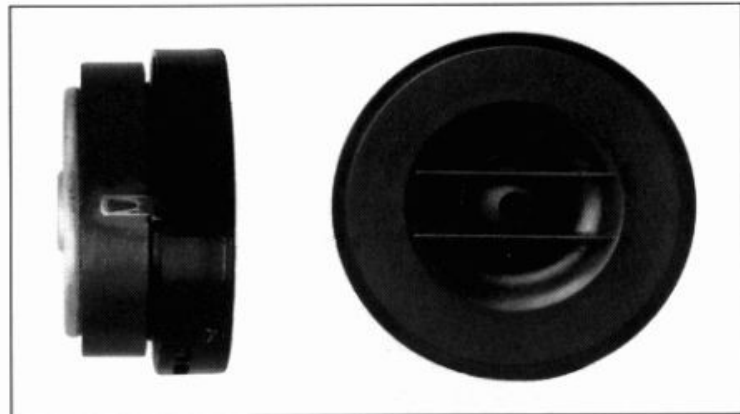
POLYMER DOME - 14 mm

4 Ω

CAR LINE

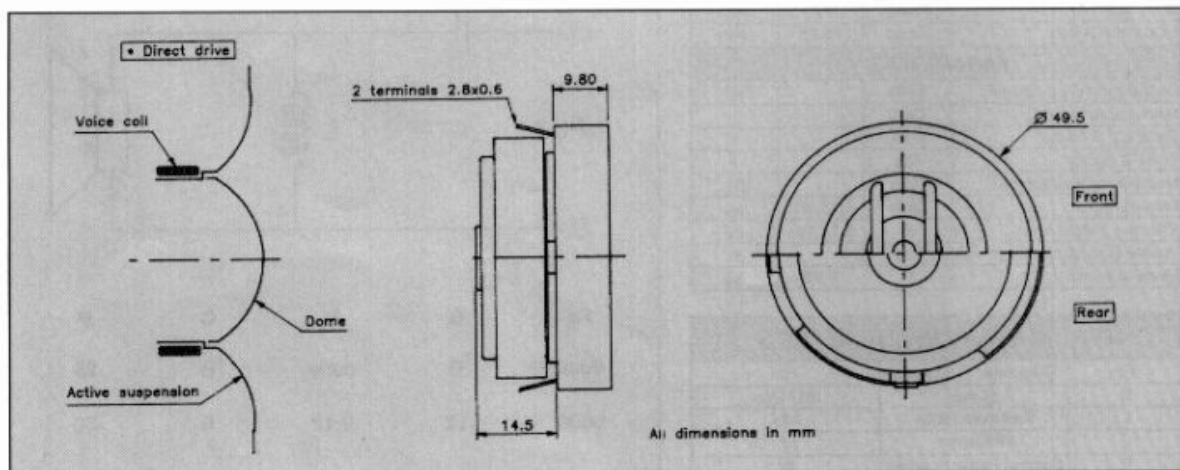
Hi Fi automotive specific design
95 dB high efficiency *direct drive**
Ferrofluid - cooled voice coil
High power handling capability
High dynamic characteristics

Application Hi Fi automobile
Concept *direct drive**
Bobine refroidie par ferrofluide
Puissance admissible importante
Grande capacité dynamique



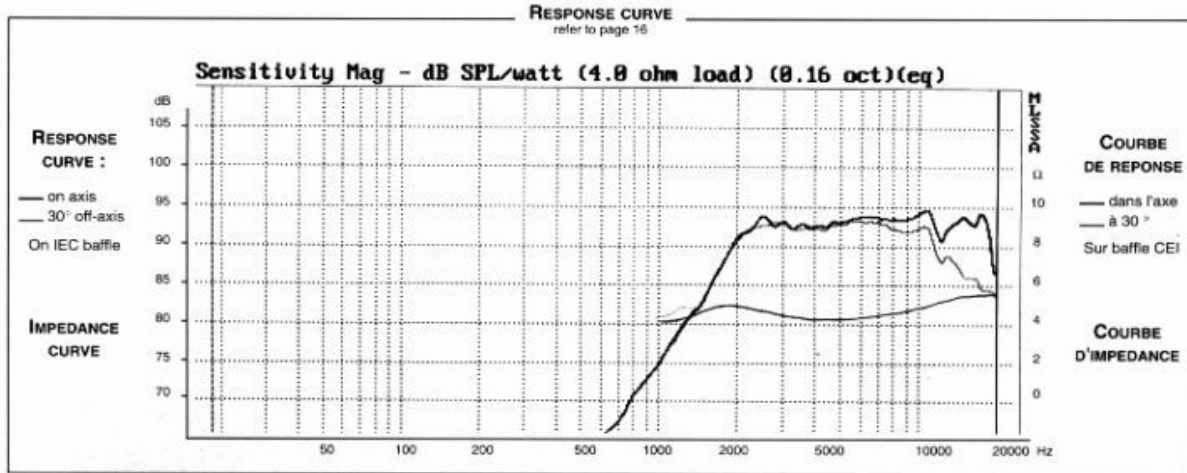
Compact, 14mm polymer dome tweeter. Ultra light moving parts with the voice coil directly wound onto the diaphragm according to the "direct drive" concept. The perfect transfer of energy is the source of its musical qualities, high definition and high efficiency. The voice coil wound onto the high temperature polymer is cooled with ferrofluid for high power handling. The 4 Ω impedance and its compact size (2") makes it ideally suitable for automotive use (dashboard...). 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 14mm 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. Son impédance - 4 Ω - son encombrement - \varnothing 50mm le destine tout particulièrement à une utilisation automobile (tableau de bord...). Il peut être filtré au second ordre (12 dB) selon le schéma Fig. 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



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SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
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PRIMARY APPLICATION

Nominal Impedance	Z	4	Ω
Resonance Frequency	Fs	2050	Hz
Nominal Power Handling	P	45	W
Sensitivity	E	94	dB

VOICE COIL

Voice coil diameter	∅	14	mm
Minimum Impedance	Zmin	5	Ω
DC Resistance	Re	2,8	Ω
Voice Coil Inductance	Lbm	0,19	μH
Voice coil Length	h	2	mm
Former	-	Polymer	-
Number of layers	n	2	-

MAGNET

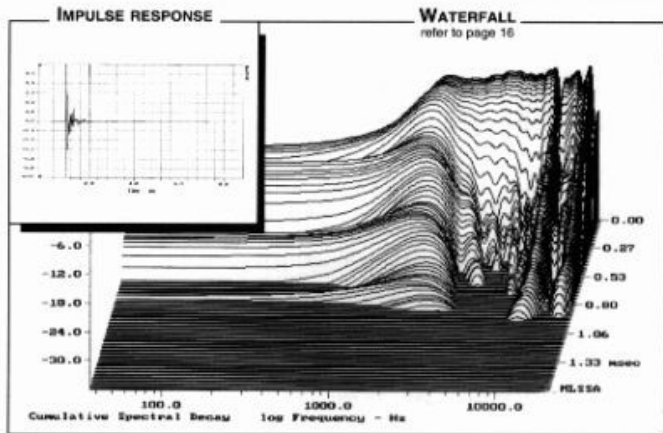
Magnet dimensions	∅ x h	45 X 9	mm
Magnet weight	m	0,53	kg
Flux density	B	1,51	T
Force factor	BL	2	NA ⁻¹
Height of magnetic gap	He	1,5	mm
Stray flux	Fmag	36	Am ⁻¹
Linear excursion	Xmax	±0,25	mm

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	0,19.10 ⁻³	kg
Effective Piston Area	S	6,6.10 ⁻⁴	m ²
Volume Equivalent of Air at Cas	Vas	-	m ³
Mass of speaker	M	0,112	kg

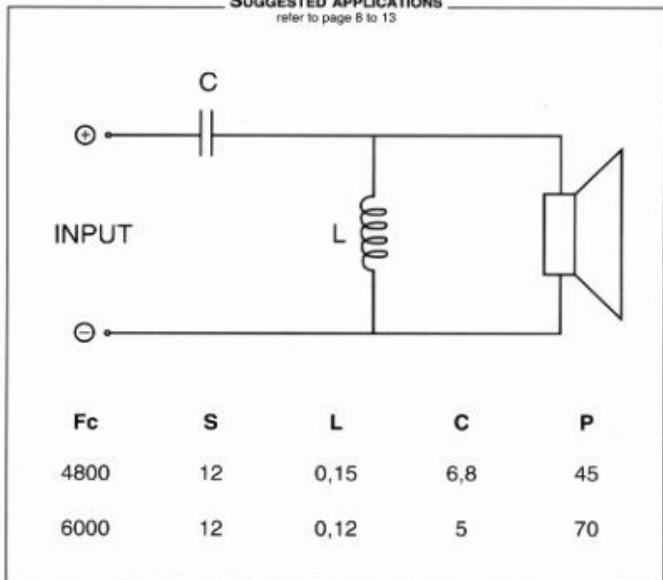
APPLICATION PARAMETERS

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



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.

