



LA PASSION DU HAUT-PARLEUR

VE130Z0

MAR. 94

BASS MIDRANGE

101210E

5^{1/4"} - HD-A CONE DRIVER - 130 mm

4 Ω

CAR LINE

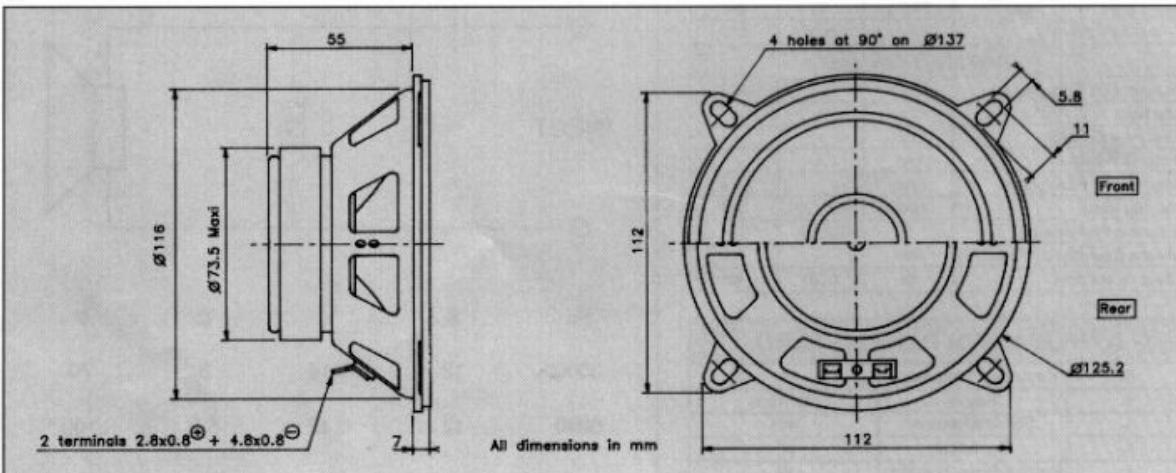
HD-A (High Definition Aerogel) cone
Hi fi automotive application
High loss rubber suspension
High temperature voice coil
Linear frequency response
stamped steel chassis

Cône Haute Définition Aérogel (HD-A)
Application Hi Fi automobile
Suspension caoutchouc amortissant
Bobine haute température
Courbe de réponse linéaire
Châssis acier embouti



HD-A represents a true breakthrough in loudspeaker cone technology, surpassing all conventional materials being used today. Through an extraordinary combination of newly developed materials and processes, Audax has created an innovative composite membrane whose properties are very close to ideal for making loudspeaker diaphragms. Ultra light, extremely rigid and maximized internal damping. This no-compromise cone is based on a totally controlled matrix of acrylic polymer gel in which an optimized proportion of Carbon and Kevlar fibers are embedded. An exclusive, proprietary process acts to perfectly align the fibers along the polymer chain. The procedure allows total control over the contour and weight of the cone, while making it possible to vary the thickness of the membrane along the profile. This 5^{1/4"} bass midrange driver is specifically designed for high-end automotive application (4Ω). Unequalled definition is achieved over a wide spectrum of frequencies and dynamic ranges while retaining a neutral tonal balance with precise and detailed imaging. The "suggested applications" charts indicate various driver loads. The response curves shown on the diagram indicate the predicted low end response of the driver in the suggested box volume (V_b) with suggested port (D_p-L_p).

Le cône HD-A constitue une véritable percée technologique dans ce domaine, surpassant tous les matériaux connus à ce jour. Par une extraordinaire association d'une nouvelle matière et d'un procédé original, Audax a créé une membrane composite, innovation dont les propriétés sont proches de l'idéal pour un transducteur à radiation directe. Ultra léger, extrêmement rigide et parfaitement amorti, ce cône sans compromis est constitué d'une matrice contrôlée de gel polymère acrylique enveloppant des fibres de Carbone et de Kevlar idéalement ordonnées. Un procédé exclusif Audax permet un alignement optimisé des fibres dans la chaîne du polymère. Le procédé procure un contrôle total du profil et du poids du cône, tout en offrant la possibilité de faire varier l'épaisseur à chaque endroit. Ce boomer-médium de 130 mm est destiné à des applications haut de gamme automobiles. Une définition inégalée sur tout ce spectre de fréquences associée à une neutralité, un équilibre tonal, caractérisent l'image sonore précise et détaillée. Le tableau "Suggested applications" indique différents types de charge. Les courbes publiées correspondent à la réponse dans le grave pour un volume (V_b) et une dimension d'évent donnée (D_p-L_p).



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AUDAX

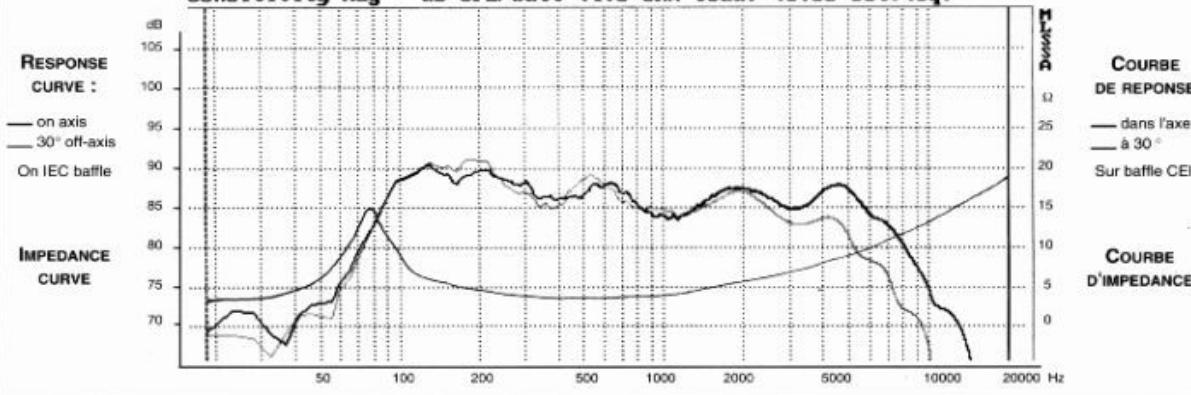
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BASS MIDRANGE

RESPONSE CURVE
refer to page 16

Sensitivity Mag - dB SPL/watt (1.0 ohm load) (0.33 oct)(eq)

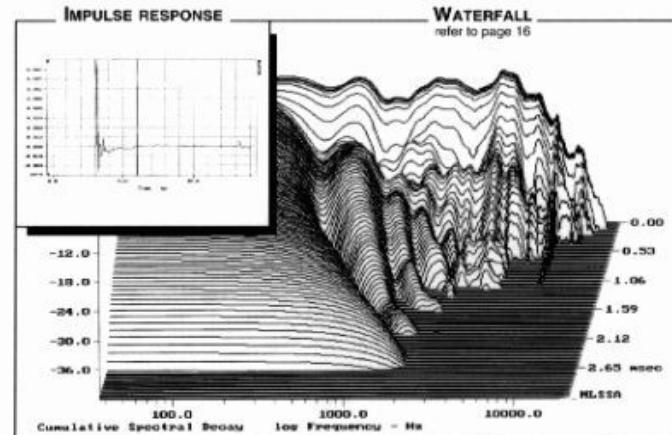


SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	4	Ω
Resonance Frequency	Fr	78	Hz
Nominal Power Handling	P	50	W
Sensitivity	E	87	dB
VOICE COIL			
Voice coil diameter	Ø	25	mm
Minimum Impedance	Zmin	3,7	Ω
DC Resistance	Re	3,3	Ω
Voice Coil Inductance	Lbm	0,20	mH
Voice coil Length	h	12	mm
Former	-	Kapton	-
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	T
Force factor	BL	3,2	NA ⁻¹
Height of magnetic gap	He	4	mm
Stray flux	Fmag	-	Am ⁻¹
Linear excursion	Xmax	±4	mm
PARAMETERS			
Suspension Compliance	Cms	0,64.10 ⁻³	mN ⁻¹
Mechanical Q Factor	Qms	3,74	-
Electrical Q Factor	Qes	1,09	-
Total Q Factor	Qts	0,84	-
Mechanical Resistance	Rms	0,85	kg s ⁻¹
Moving Mass	Mms	6,5.10 ⁻³	kg
Effective Piston Area	S	0,85.10 ⁻³	m ²
Volume Equivalent of Air at Cas	Vas	6,5.10 ⁻³	m ³
Mass of speaker	M	0,6	kg
APPLICATION PARAMETERS			
Vb	Box volume	dim ³	
Fb	Tuning frequency	Hz	
Dp	Port diameter	cm	
Lp	Port length	cm	

IMPULSE RESPONSE

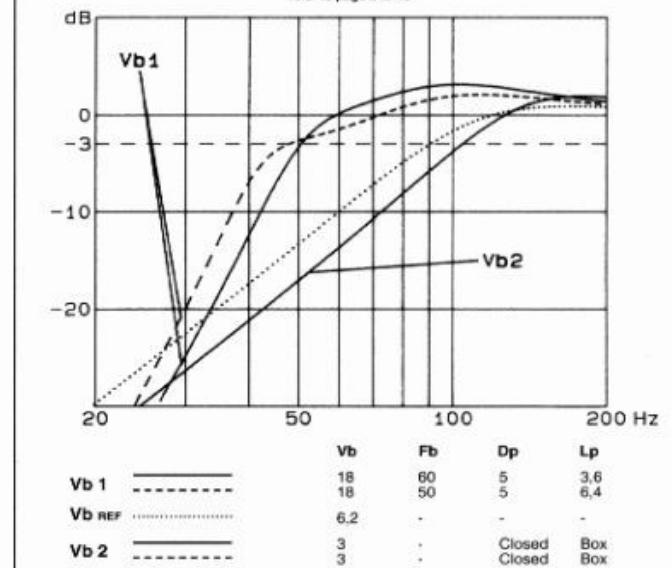
WATERFALL

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.