

**12" - PAPER CONE DRIVER - 300 mm**

4 Ω

**CAR LINE**

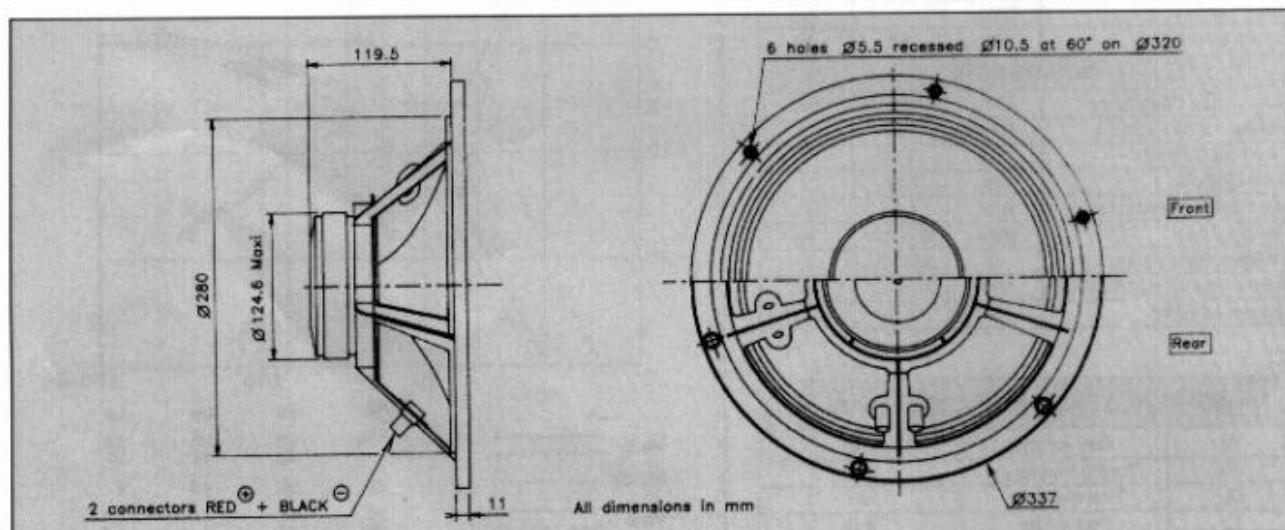
Hi Fi automotive application  
Zamak die cast chassis  
Exponential paper cone  
Coated textile suspension  
Kapton voice coil former (48 mm Ø)  
Flat copper wire  
Gold plated binding posts

Application hi fi automobile  
Châssis Zamak moulé  
Cône papier profil exponentiel  
Suspension toile traitée  
Bobine sur support Kapton (Ø 48 mm)  
Fil cuivre plat sur chant  
Bornes plaquées or



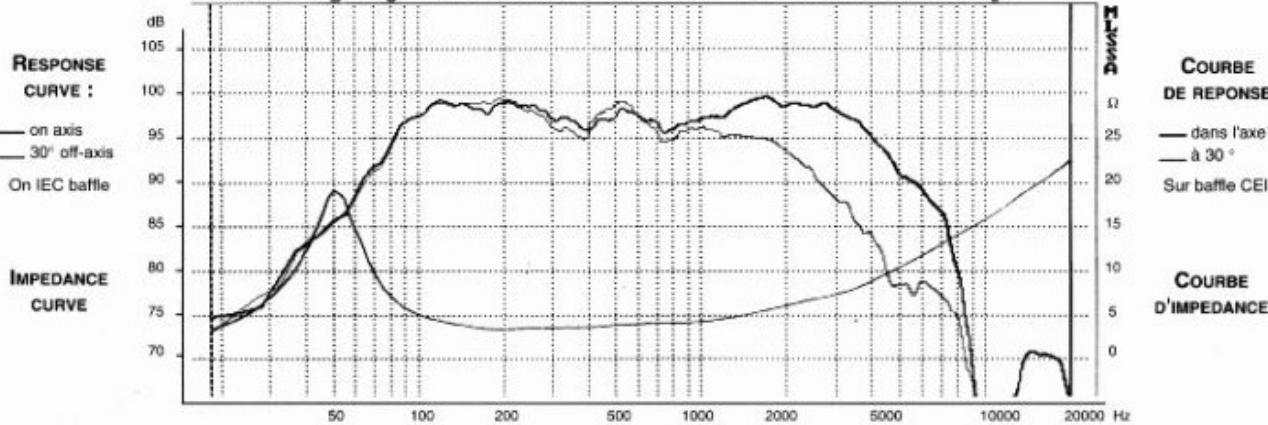
This 12", designed for high quality multiway automotive application (4 Ω) offers a combination of high sensitivity (97 dB), high power handling with edgewound flat copper wire mounted onto a fiberglass reinforced Kapton former and extended frequency range from the exponential cone profile. The gold plated binding posts fitted onto the Zamak die cast chassis offer the possibility of using large diameter cables. The "suggested applications" charts indicate various driver loads, including the box alignment used to measure the response curve (Vb REF). The response curves shown on the diagram indicate the predicted low end response of the driver in the suggested box volume (Vb) with suggested port (Dp-Lp).

Ce haut-parleur de 300 mm est destiné à une utilisation en haute fidélité automobile en systèmes multivoies (4 Ω), il bénéficie d'une tenue en puissance élevée due à sa bobine sur support Kapton renforcé fibre de verre à fil de cuivre plat sur chant, d'un rendement élevé (97 dB) et d'une membrane à profil exponentiel permettant une réponse étendue vers le haut du spectre. Le châssis Zamak moulé est équipé de borniers plaqués or permettant l'utilisation de câbles de forte section. Le tableau "Suggested applications" indique différents types de charge dont celui utilisé pour la mesure de la courbe de réponse (Vb). Les courbes publiées correspondent à la réponse dans le grave pour un volume (Vb) et une dimension d'évent donnée (Dp-Lp).



**RESPONSE CURVE**  
refer to page 16

**Sensitivity Mag - dB SPL/watt (4.0 ohm load) (0.50 oct)(eq)**



## SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
<b>PRIMARY APPLICATION</b>			
Nominal Impedance	Z	4	Ω
Resonance Frequency	Fr	51	Hz
Nominal Power Handling	P	100	W
Sensitivity	E	97	dB
<b>VOICE COIL</b>			
Voice coil diameter	Ø	48	mm
Minimum Impedance	Zmin	4,3	Ω
DC Resistance	Rdc	3,3	Ω
Voice Coil Inductance	Lbm	0,32	mH
Voice coil Length	h	10	mm
Former	-	Kapton	-
Number of layers	n	1	-
<b>MAGNET</b>			
Magnet dimensions	Ø x h	120 x 20	mm
Magnet weight	m	0,88	kg
Flux density	B	1	T
Force factor	BL	8,76	NA <sup>-1</sup>
Height of magnetic gap	He	6	mm
Stray flux	Fmag	-	Am <sup>-1</sup>
Linear excursion	Xmax	±2	mm
<b>PARAMETERS</b>			
Suspension Compliance	Cms	0,23.10 <sup>-3</sup>	mN <sup>-1</sup>
Mechanical Q Factor	Qms	3,89	-
Electrical Q Factor	Qes	0,57	-
Total Q Factor	Qts	0,50	-
Mechanical Resistance	Rms	3,4	kg s <sup>-1</sup>
Moving Mass	Mms	41,34.10 <sup>-3</sup>	kg
Effective Piston Area	S	5,4.10 <sup>-3</sup>	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	97,10 <sup>-3</sup>	m <sup>3</sup>
Mass of speaker	M	3,2	kg

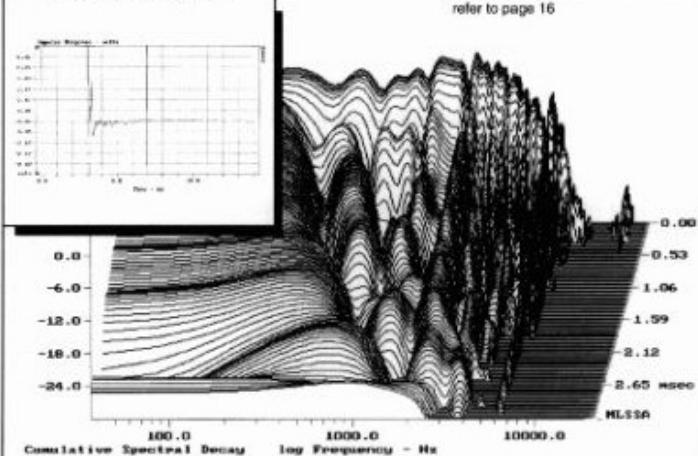
## APPLICATION PARAMETERS

Vb	Box volume	dm <sup>3</sup>
Fb	Tuning frequency	Hz
Dp	Port diameter	cm
Lp	Port length	cm

**IMPULSE RESPONSE**

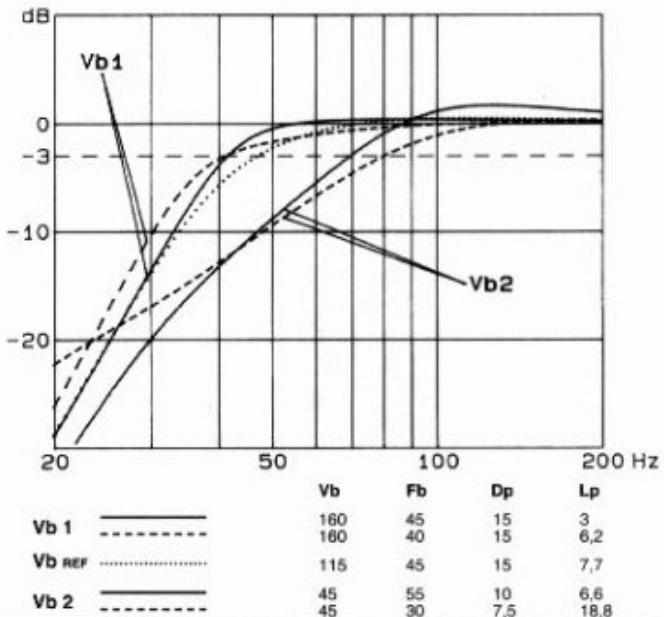


**WATERFALL**



**SUGGESTED APPLICATIONS**

refer to page 8 to 13



Please refer to method of measurement and measurement conditions pages 15 to 19.  
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