AUDAX

LA PASSION DU HAUT-PARLEUR

PR240T0

WOOFER

100922N

10" - PAPER CONE DRIVER - 240 mm

4 Ω

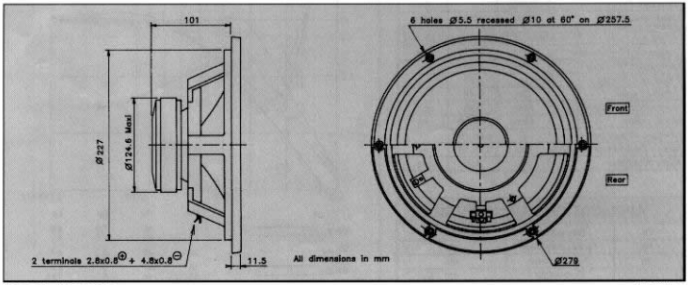
CAR LINE

Hi Fi automotive application
Zamak die cast chassis
Exponential paper cone
Coated textile surround
Kapton voice coil former
Flat copper wire
Gold plated terminals

Application automobile
Châssis Zamak moulé
Cône papier profil exponentiel
Suspension toile traitée
Bobine sur support Kapton
Fil cuivre plat sur chant
Connectique plaquée or

The edgewound copper wire voice coil mounted onto a fiberglass reinforced Kapton former coupled with the exponential cone profile ensures this bass unit offers high efficiency - 97 dB - and excellent power handling capacity. Covering a wide frequency range of 50 Hz to 6 kHz this driver is well suited for 2 way applications. 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 (Vb) with suggested port (Dp-Lp).

Ce haut-parleur de graves bénéficie d'un rendement élevé - 97 dB - d'une bonne tenue en puissance et d'une bande passante étendue grâce à sa bobine en fil de cuivre plat sur support Kapton renforcé fibre de verre et au profil exponentiel de son cône. Sa plage d'utilisation 50 Hz à 6 kHz autorise une association en 2 voies. Le tableau "Suggested applications" indique différents types de charge. Les courbes publiées correspondent à la réponse dans le grave pour un volume (Vb) et une dimension d'évent donnée (Dp-Lp).



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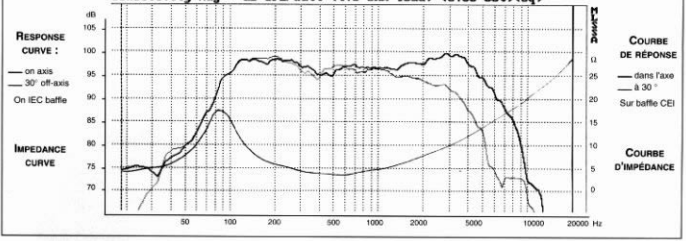
RESPONSE CURVE
refer to page 16

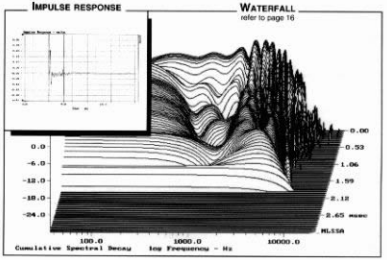


SPECIFICATIONS

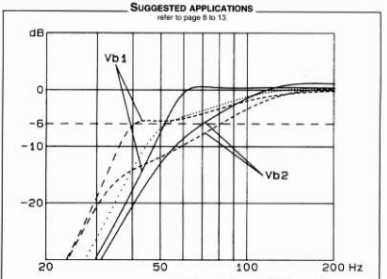
Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	4	Ω
Resonance Frequency	Fs	90	Hz
Nominal Power Handling	P	80	W
Sensitivity	E	97	dB
VOICE COIL			
Voice coil diameter	Ø	40	mm
Minimum Impedance	Zmin	4,7	Ω
DC Resistance	Re	3,4	Ω
Voice Coil Inductance	Lbm	0,19	mH
Voice coil Length	h	12	mm
Former	-	Kapton	-
Number of layers	n	1	-
MAGNET			
Magnet dimensions	Ø x h	120 X 20	mm
Magnet weight	m	0,88	kg
Flux density	B	1,4	T
Force factor	BL	7,95	NA^{-1}
Height of magnetic gap	He	6	mm
Stray flux	Fmag	-	Am^{-1}
Linear excursion	Xmax	±3	mm
PARAMETERS			
Suspension Compliance	Cms	$0,124.10^{-3}$	mN^{-1}
Mechanical Q Factor	Qms	3,43	-
Electrical Q Factor	Qes	0,77	-
Total Q Factor	Qts	0,63	-
Mechanical Resistance	Rms	4,14	$kg\,s^{-1}$
Moving Mass	Mms	$25,1.10^{-3}$	kg
Effective Piston Area	S	344.10^{-4}	m^2
Volume Equivalent of Air at Cas	Vas	$20,6.10^{-3}$	m^3
Mass of speaker	M	3,15	kg

IMPULSE RESPONSE

WATERFALL
refer to page 18



SUGGESTED APPLICATIONS
refer to page 8 to 13



	Vb	Fb	Dp	Lp
Vb 1	115	62	20	3,9
	115	42	15	10
Vb REF	50	55	7,5	2
Vb 2	25	70	7,5	3,4
	25	45	5	5,4

APPLICATION PARAMETERS

Vb	Box volume	dm^3
Fb	Tuning frequency	Hz
Dp	Port diameter	cm
Lp	Port length	cm

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