

## 4" - FIBERGLASS CONE DRIVER - 100 mm

4 Ω

CAR LINE

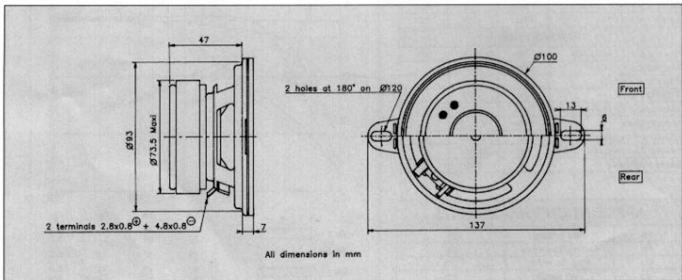
Hi Fi automotive application  
Extended frequency response  
Woven fiberglass cone  
High loss rubber surround  
Linear frequency response  
Stamped steel chassis

Application Hi Fi automobile  
Réponse étendue  
Cône fibre de verre tissée  
Suspension caoutchouc amortissante  
Courbe de réponse linéaire  
Châssis acier embouti



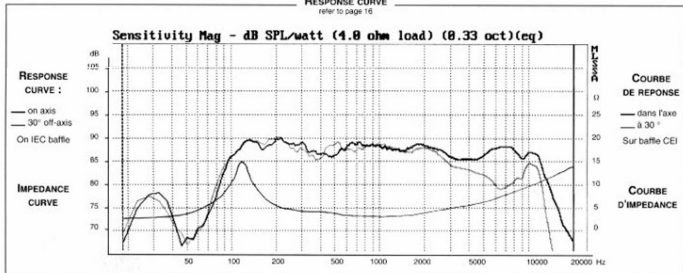
This 4" Bass-Midrange driver is specifically designed for Hi Fi automotive application (4 Ω). A woven fiberglass cone coupled with an high loss rubber surround combine excellent sonic qualities and long term reliability in automotive environment. It offers a largemagnet for high efficiency and high temperature voice coil for good power handling. 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 Boomer-Médium de 100 mm est particulièrement destiné à des applications Hi Fi automobile (4Ω). Sa membrane en fibre de verre tissée associée à une suspension caoutchouc amortissante offre d'excellentes qualités sonores ainsi qu'une fiabilité exceptionnelle dans un environnement automobile. Une structure magnétique largement dimensionnée lui procure un rendement élevé et une bobine haute température, sa bonne tenue en puissance. 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).



**RESPONSE CURVE**

refer to page 16



## SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
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### PRIMARY APPLICATION

Nominal Impedance	Z	4	$\Omega$
Resonance Frequency	Fs	120	Hz
Nominal Power Handling	P	30	W
Sensitivity	E	89	dB

### VOICE COIL

Voice coil diameter	O	25	mm
Minimum Impedance	Zmin	3,6	$\Omega$
DC Resistance	Re	3,4	$\Omega$
Voice Coil Inductance	Lbm	0,19	mH
Voice coil Length	h	7	mm
Former	-	Aluminium	-
Number of layers	n	2	-

### MAGNET

Magnet dimensions	O x h	72 X 15	mm
Magnet weight	m	0,24	kg
Flux density	B	1	T
Force factor	BL	4,2	NA'
Height of magnetic gap	He	4	mm
Stray flux	Fmag	-	Am'
Linear excursion	Xmax	$\pm 1,5$	mm

### PARAMETERS

Suspension Compliance	Cms	$0,32 \cdot 10^{-3}$	mN <sup>-1</sup>
Mechanical Q Factor	Qms	4,74	-
Electrical Q Factor	Qes	0,80	-
Total Q Factor	Qts	0,69	-
Mechanical Resistance	Rms	0,88	kg s <sup>-1</sup>
Moving Mass	Mms	$5,5 \cdot 10^{-4}$	kg
Effective Piston Area	S	$0,5 \cdot 10^{-4}$	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	$1,1 \cdot 10^{-4}$	m <sup>3</sup>
Mass of speaker	M	0,56	kg

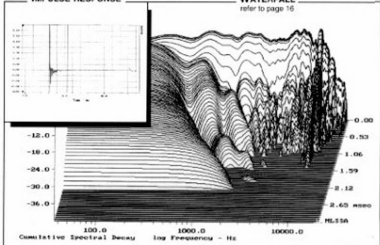
## APPLICATION PARAMETERS

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

### IMPULSE RESPONSE

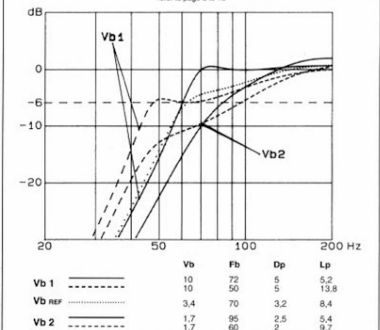
### WATERFALL

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.

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