

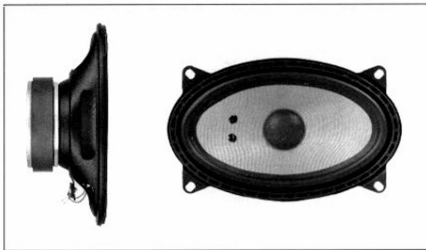
## 4" X 6" - ELLIPTICAL FIBERGLASS CONE DRIVER - 90 X 150 mm

4 Ω

CAR LINE

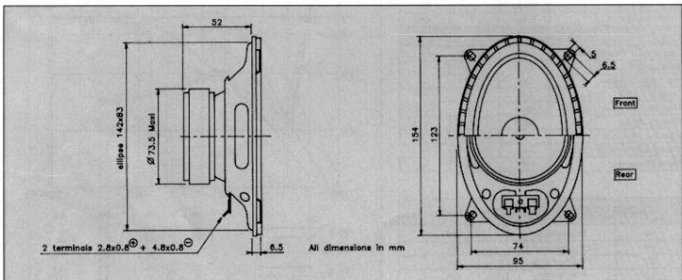
Hi Fi automotive application  
 Extended frequency response  
 Woven fiberglass cone  
 High loss rubber surround  
 Linear frequency response  
 Elliptical stamped steel chassis

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



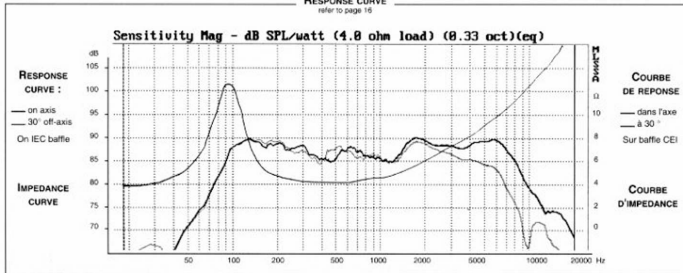
This 4" x 6" Bass-Midrange driver has been designed for Hi Fi automotive application (4 Ω). A woven fiberglass cone coupled with a high loss rubber surround combine excellent sonic qualities and long term reliability in automotive environment. It offers a largemagnet for high efficiency and high temperature 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 elliptique de 90 x 150 mm est particulièrement destiné à des applications Hi Fi automobile (4Ω). Sa membrane en fibre de verre tissée associée à une suspension en toile caoutchoutée 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	90	Hz
Nominal Power Handling	P	30	W
Sensitivity	E	88	dB

**VOICE COIL**

Voice coil diameter	$\varnothing$	25	mm
Minimum Impedance	Zmin	4	$\Omega$
DC Resistance	Re	3.5	$\Omega$
Voice Coil Inductance	Lbm	0.2	mH
Voice coil Length	h	7	mm
Former	-	Aluminium	-
Number of layers	n	2	-

**MAGNET**

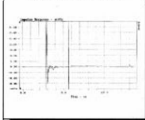
Magnet dimensions	$\varnothing \times h$	72 X 15	mm
Magnet weight	m	0.24	kg
Flux density	B	1	T
Force factor	BL	4.5	NA <sup>-1</sup>
Height of magnetic gap	He	4	mm
Stray flux	Fmag	-	Am <sup>-1</sup>
Linear excursion	Xmax	±1.5	mm

**PARAMETERS**

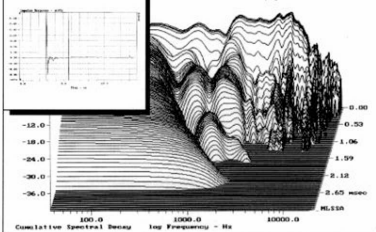
Suspension Compliance	Cms	$0.32 \cdot 10^{-1}$	mN <sup>-1</sup>
Mechanical Q Factor	Qms	3	-
Electrical Q Factor	Qes	0.96	-
Total Q Factor	Qts	0.73	-
Mechanical Resistance	Rms	1.82	kg s <sup>-1</sup>
Moving Mass	Mms	$9.4 \cdot 10^{-3}$	kg
Effective Piston Area	S	$0.75 \cdot 10^{-1}$	m <sup>2</sup>
Volume Equivalent of Air at Cas	Vas	$2.5 \cdot 10^{-1}$	m <sup>3</sup>
Mass of speaker	M	0.61	kg

**APPLICATION PARAMETERS**

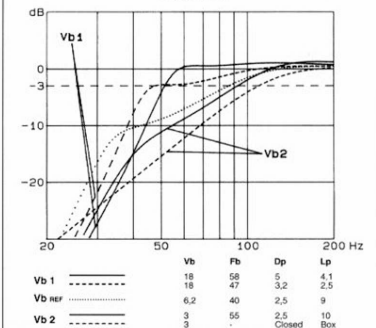
Vb	Box volume	dm <sup>3</sup>
Fb	Tuning frequency	Hz
Dp	Port diameter	cm
Lp	Port length	cm

**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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