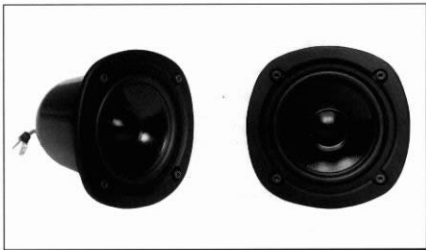


4^{1/2}" - PAPER CONE DRIVER - 100 mm

CLASSIC SERIES

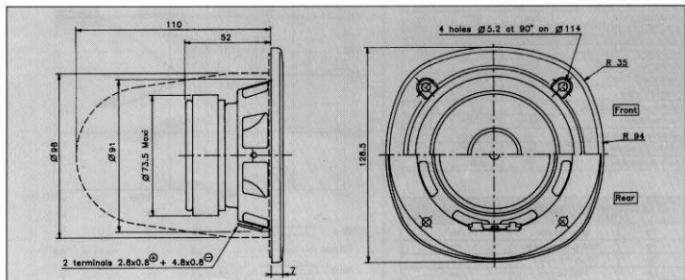
High loss rubber surround
Coated paper cone
Stamped steel chassis
High temperature voice coil
Aluminium voice coil former
Optional polymer cup

Suspension caoutchouc amortissant haute compliance
Cône papier traité
Chassis acier embouti
Bobine haute température
Support bobine aluminium
Capot plastique optionnel

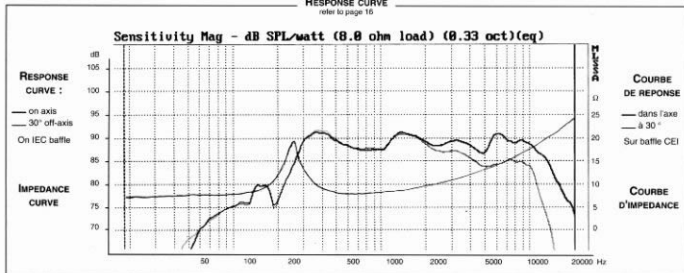


This 4" midrange has been designed for high-end systems, and is available with an optional sealed back enclosure, as mentioned on page 265. It features a state of the art curvilinear paper cone, which is critically damped and coupled to a high-loss rubber surround. Special consideration has been taken to ensure a smooth response and edge diffraction is reduced with a newly designed trimming. The high temperature, 1" voice coil ensures excellent power handling. A crossover design is suggested in Fig. 1 and corresponding chart for matching this driver with a woofer in our line is provided. Easily coupled with 2nd order crossover as shown Fig. 1. Two crossover points are suggested for adequate power handling.

Ce médium de 100 mm a été conçu pour équiper des systèmes haut de gamme tout en offrant une charge plastique (voir page 265) spécialement adaptée. Il est doté d'un cône en papier à profil curviligne couplé à une suspension en caoutchouc amortissante haute compliance. Un soin tout particulier a été apporté à cet ensemble afin d'assurer une réponse en fréquence linéaire ainsi qu'une coupure haute naturelle. Une esthétique nouvelle est également proposée en la conception d'une couronne décorative inédite. La bobine haute température sur support aluminium autorise une bonne tenue en puissance. Un schéma de filtre passe-bas est proposé (Fig 1) pour un raccordement optimisé aux woofers de notre série. Il peut être filtré au second ordre (12 dB/Oct) selon le schéma Fig 1. Deux fréquences de coupure sont proposées afin d'obtenir la tenue en puissance adéquate.



RESPONSE CURVE
refer to page 16



SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
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PRIMARY APPLICATION

Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	240	Hz
Nominal Power Handling	P	35	W
Sensitivity	E	89	dB

VOICE COIL

Voice coil diameter	\varnothing	25	mm
Minimum Impedance	Zmin	8.3	Ω
DC Resistance	Re	7.6	Ω
Voice Coil Inductance	Lbm	0.23	mH
Voice coil Length	h	7	mm
Former	-	Aluminium	-
Number of layers	n	2	-

MAGNET

Magnet dimensions	$\varnothing \times h$	72x15	mm
Magnet weight	m	0.24	kg
Flux density	B	1	T
Force factor	BL	4.8	NA'
Height of magnetic gap	He	4	mm
Stray flux	Fmag	-	Am'
Linear excursion	Xmax	± 1.5	mm

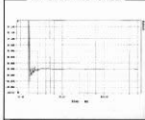
PARAMETERS

Suspension Compliance	Cms	$0.1 \cdot 10^{-2}$	mN'
Mechanical Q Factor	Qms	4.16	-
Electrical Q Factor	Qes	2.09	-
Total Q Factor	Qts	1.39	-
Mechanical Resistance	Rms	1.52	kg s ⁻¹
Moving Mass	Mms	$4.2 \cdot 10^{-1}$	kg
Effective Piston Area	S	$0.57 \cdot 10^{-1}$	m ²
Volume Equivalent of Air at Cas	Vas	-	m ³
Mass of speaker + cup	M	0.6 + 0.1	kg

APPLICATION PARAMETERS

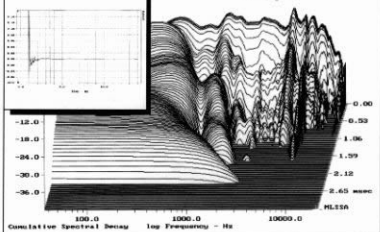
Fc	Crossover Frequency	Hz
S	Slope	dB / Oct
L	Self-inductance	mH
C	Capacitor	μ F+
P	Nominal Power Handling	W

IMPULSE RESPONSE



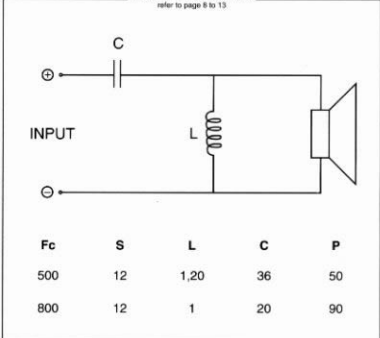
WATERFALL

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.