AUDAX

LA PASSION DU HAUT-PARLEUR

PR170M0

MIDRANGE

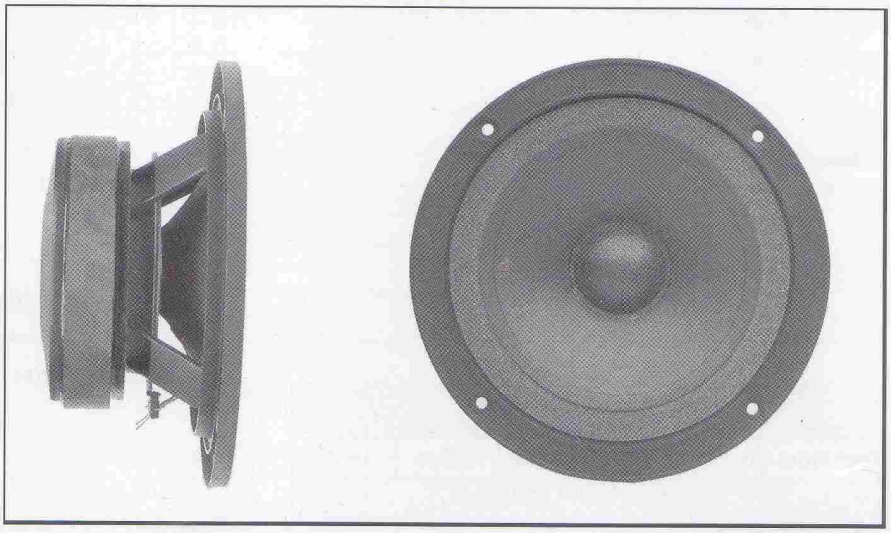
100782R

6 1/2" - PAPER CONE DRIVER - 170 mm

PROFESSIONAL LINE

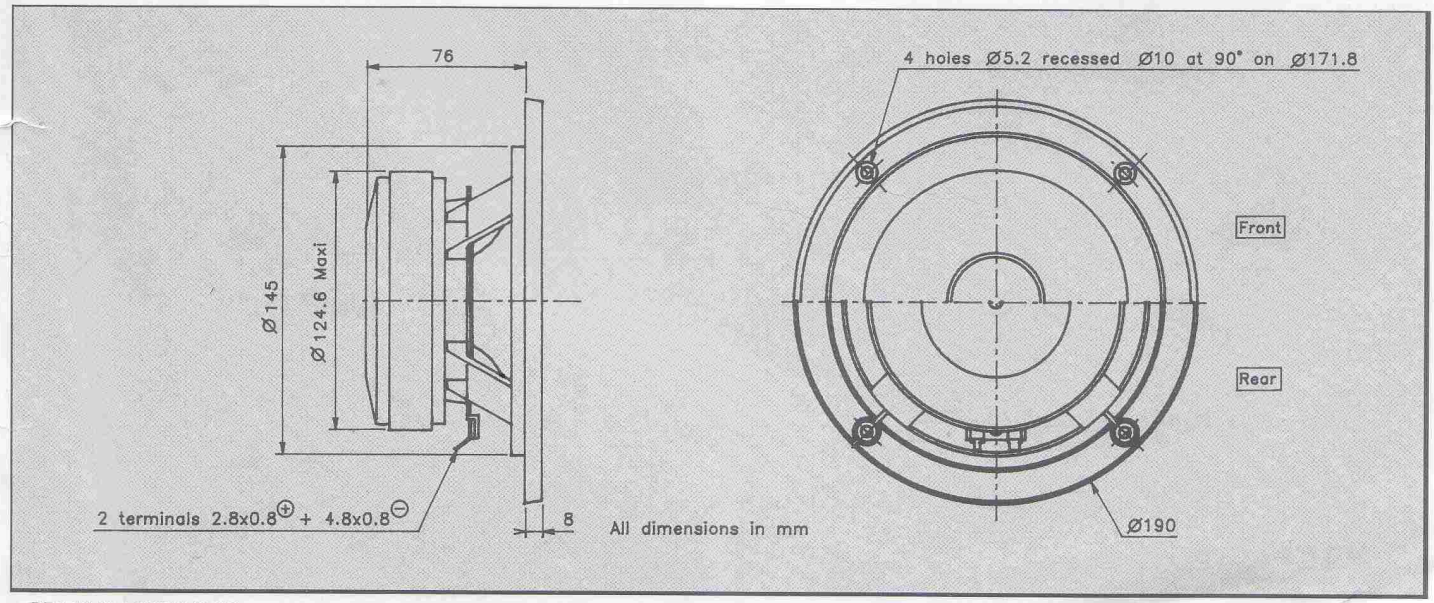
- High power handling capacity - 100 W (IEC)
- Very high efficiency - 100 dB
- Ultra stiff die cast chassis
- Treated flat foam surround
- Special paper cone
- Kapton voice coil former (40 mm Ø)
- Flat aluminium wire
- Gold plated terminals

- Puissance admissible élevée - 100 W (CEI)
- Très haut rendement - 100 dB
- Châssis moulé ultra rigide
- Suspension plane mousse traitée
- Cône papier spécifique
- Bobine sur support Kapton (Ø 40 mm)
- Fil plat aluminium sur chant
- Connectique plaquée or



This midrange driver has been specifically designed for high quality professional sound reinforcement systems. Its efficiency and power handling capacity are exceptional for a direct radiation transducer in its category - 100 dB - 100 W due to edgewound flat aluminium wire onto fiberglass reinforced Kapton former. The flat foam suspension is coated with a visco-elastic compound in order to minimize the standing waves and cone break up. It is ideally suited to cover the frequency range from 500 Hz to 8 kHz. This driver is worldwide recognized as the reference in prestigious professional applications. A crossover design is suggested in Fig. 1 and corresponding chart for matching this driver with a woofer in our line is provided. Recommended crossover point : 600 Hz at 18 dB/octave.

Ce haut-parleur médium est spécialement étudié pour les sonorisations professionnelles de grande qualité. Son rendement et sa tenue en puissance sont exceptionnels pour un transducteur de cette catégorie. 100 dB - 100 W grâce à une bobine en fil plat d'aluminium sur chant et son support Kapton renforcé fibre de verre. La suspension plane en mousse traitée par un matériau visco-élastique minimise les ondes stationnaires et contrôle les modes parasites du cône. Son domaine d'utilisation privilégié se situe de 500 Hz à 8 kHz. C'est un haut-parleur reconnu dans le monde entier pour les utilisations professionnelles les plus prestigieuses. Fréquence de coupure recommandée : 600 Hz à 18 dB/octave. Un shéma de filtre passe-bas est proposé (Fig 1) pour un raccordement optimisé aux woofers de notre série.



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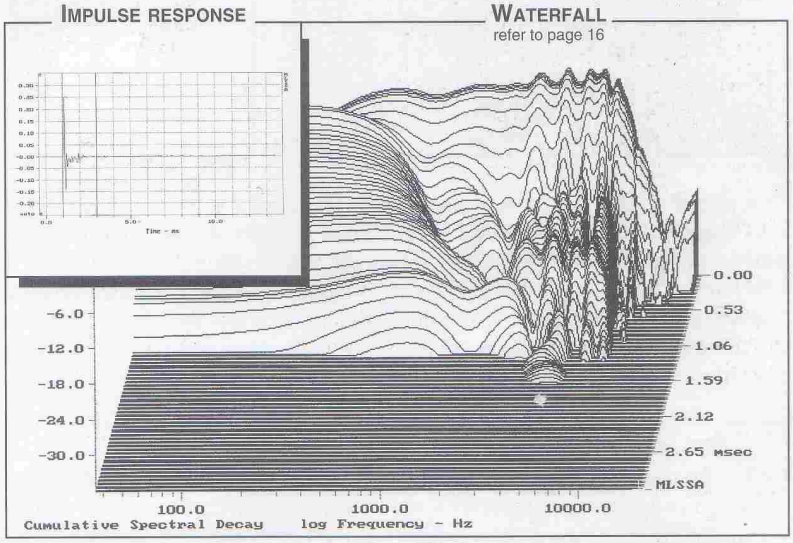
RESPONSE CURVE
refer to page 16



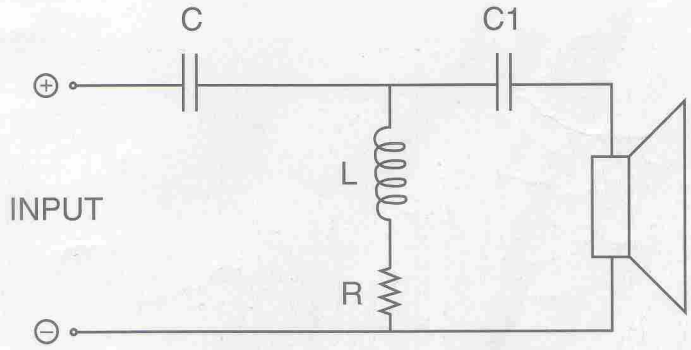
SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	117	Hz
Nominal Power Handling	P	100	W
Sensitivity	E	100	dB
VOICE COIL			
Voice coil diameter	Ø	40	mm
Minimum Impedance	Zmin	6,5	Ω
DC Resistance	Re	6,2	Ω
Voice Coil Inductance	Lbm	0,73	mH
Voice coil Length	h	7	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	8,24	NA^{-1}
Height of magnetic gap	He	6	mm
Stray flux	Fmag	-	Am^{-1}
Linear excursion	Xmax	±0,5	mm
PARAMETERS			
Suspension Compliance	Cms	$0,2.10^{-3}$	mN^{-1}
Mechanical Q Factor	Qms	3,16	-
Electrical Q Factor	Qes	0,61	-
Total Q Factor	Qts	0,51	-
Mechanical Resistance	Rms	2,1	kg s^{-1}
Moving Mass	Mms	$9,17.10^{-3}$	kg
Effective Piston Area	S	$1,39.10^{-2}$	m^2
Volume Equivalent of Air at Cas	Vas	$5,52.10^{-3}$	m^3
Mass of speaker	M	2,5	kg

IMPULSE RESPONSE — WATERFALL
refer to page 16



SUGGESTED APPLICATIONS
refer to page 8 to 13



Fc	S	L	R	C	C1	P
600	18	1,2	1	38	53	150

APPLICATION PARAMETERS

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

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.