AUDAX

LA PASSION DU HAUT-PARLEUR

HT100F0

BASS MIDRANGE

100835Q

4" - FIBERGLASS CONE DRIVER - 100 mm

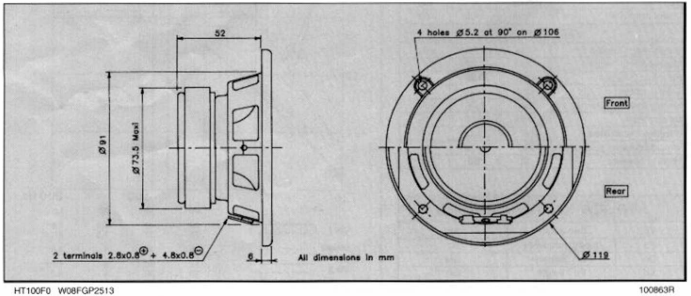
CLASSIC SERIES

Extended frequency response
Woven fiberglass cone
Rubber surround
Linear frequency response
Stamped steel chassis

Réponse étendue
Cône fibre de verre tissée
Suspension caoutchouc
Courbe de réponse linéaire
Châssis acier embouti

The woven fiberglass cone and rubber surround of this 4" bass midrange are combined to produce outstanding performance characteristics. The linear frequency characteristic, extended response and long excursion capability of this driver make it ideally suited for a wide range of 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 compact, 100 mm est équipé d'une membrane en fibre de verre tissée et d'une suspension caoutchouc. Il combine une bande passante étendue, une fréquence de résonance basse et de reélles possibilités de longues excursions. 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 (Vp-Lp).



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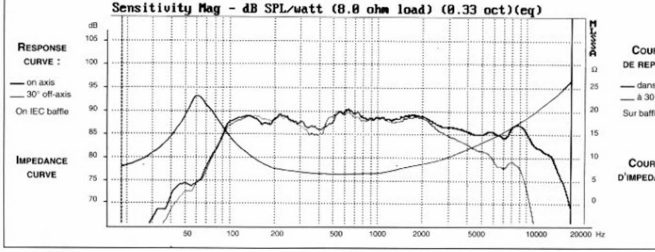
BASS MIDRANGE

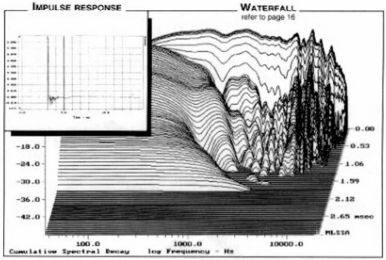
RESPONSE CURVE
refer to page 16



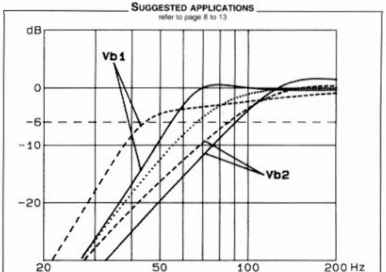
SPECIFICATIONS

Technical Characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	8	Ω
Resonance Frequency	Fs	60	Hz
Nominal Power Handling	P	30	W
Sensitivity	E	88	dB
VOICE COIL			
Voice coil diameter	Ø	25	mm
Minimum Impedance	Zmin	6,8	Ω
DC Resistance	Re	5,8	Ω
Voice Coil Inductance	Lbm	0,29	mH
Voice coil Length	h	10	mm
Former	-	Aluminium	-
Number of layers	n	2	-
MAGNET			
Magnet dimensions	Ø x h	72 x 15	mm
Magnet weight	m	0,24	kg
Flux density	B	1	T
Force factor	BL	4,63	NA^{-1}
Height of magnetic gap	He	4	mm
Stray flux	Fmag	-	Am^{-1}
Linear excursion	Xmax	±3	mm
PARAMETERS			
Suspension Compliance	Cms	$1,38.10^{-3}$	mN^{-1}
Mechanical Q Factor	Qms	1,87	-
Electrical Q Factor	Qes	0,52	-
Total Q Factor	Qts	0,41	-
Mechanical Resistance	Rms	1,02	kg s^{-1}
Moving Mass	Mms	$5,06.10^{-3}$	kg
Effective Piston Area	S	$0,5.10^{-3}$	m^2
Volume Equivalent of Air at Cas	Vas	$5,03.10^{-3}$	m^3
Mass of speaker	M	0,59	kg

IMPULSE RESPONSE — **WATERFALL**
refer to page 16



SUGGESTED APPLICATIONS
refer to page 8 to 13



	Vb	Fb	Dp	Lp
Vb 1	10	65	5	7
	10	45	3,2	6,6
Vb REF	3,4	65	3,2	10
Vb 2	1,7	90	2	3,7
	1,7	65	2	8,1

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.