AUDAX INDUSTRIES
2, route de Tours - 72500 Château du Loir - France
Phone : (33) 2 43 38 42 00 - Fax : (33) 2 43 44 12 02

VP170Z0

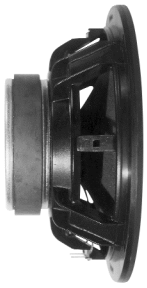
102194Q

Feb. 2000

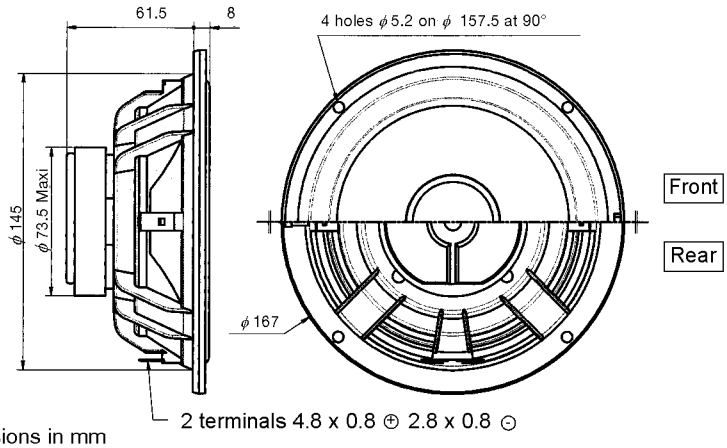
WOOFER

VP170Z0 W04ZGP2511
102439S

6 1/2" - HDA cone
High impact polymer chassis

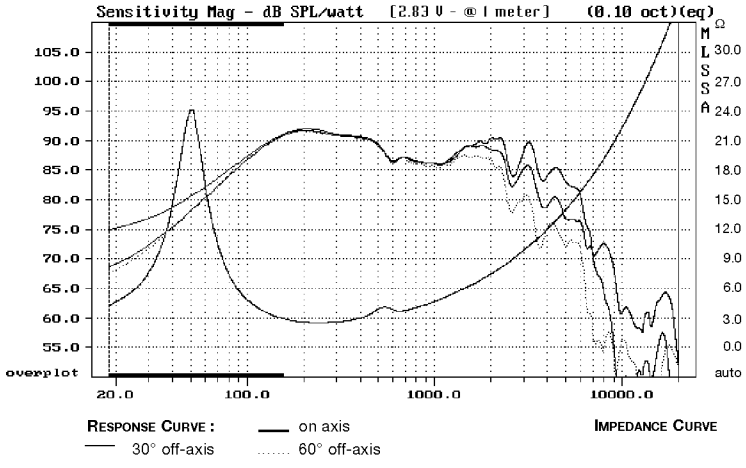


- *HDA (High Definition Aerogel) cone*
- *Compact woofer - Drop-in for high-end aftermarket installation*
- *High-loss rubber surround*
- *Kapton former voice coil*
- *Gold plated terminals*
- *Vented magnet system*
- *Non resonant - corrosion-free - High impact polymer chassis*



All dimensions in mm

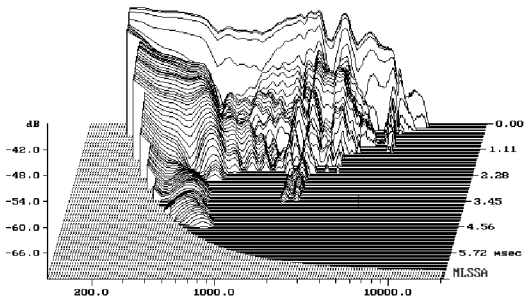
Response Curve



RESPONSE CURVE : on axis, 30° off-axis, 60° off-axis

IMPEDANCE CURVE

Waterfall



Cumulative Spectral Decay Log Frequency - Hz

SPECIFICATIONS

Technical characteristics	Symbol	Value	Units
PRIMARY APPLICATION			
Nominal Impedance	Z	4	Ω
Resonance Frequency	Fs	48,3	Hz
Nominal Power Handling	P	60	W
Sensitivity (2,83 V - 1m)	E	90	dB
VOICE COIL			
Voice Coil Diameter	ϕ	25	mm
Minimum Impedance	Zmin	3,9	Ω
DC Resistance	Dcr	3,35	Ω
Voice Coil Inductance	Lbm	0,82	mH
Voice Coil Length	h	12	mm
Former	-	kapton	-
Number of Layers	n	4	-
Wire type	-	round	-
Wire material	-	copper	-

MAGNET			
Magnet Dimensions	ϕ x h	72 x 15	mm
Magnet Weight	m	245	g
Flux Density	B	1	T
Force Factor	BL	5,77	NA^{-1}
Height of Magnetic Gap	He	4	mm
Stray Flux	Fmag	-	Am^{-1}
Linear Excursion	Xmax	±4	mm
PARAMETERS			
Suspension Compliance	Cms	786	µm/N
Mechanical Q Factor	Qms	4,66	-
Electrical Q Factor	Qes	0,42	-
Total Q Factor	Qts	0,39	-
Mechanical Resistance	Rms	0,9	kg s^{-1}
Moving Mass	Mms	13,96	g
Effective Piston Area	S	132,73	cm^2
Volume Equivalent of Air at Cas	Vas	19,46	liters
Mass of Speaker	M	680	g

Suggested Applications

Vb	Fb	Dp	Lp	F-3
liters	Hz	cm	cm	Hz
15	50,3	6	18	52,2
20	50,9	6	12	48,2