SICA LOUDSPEAKERS

10"- 700W Professional Woofer

10 K3 - 8 Ω

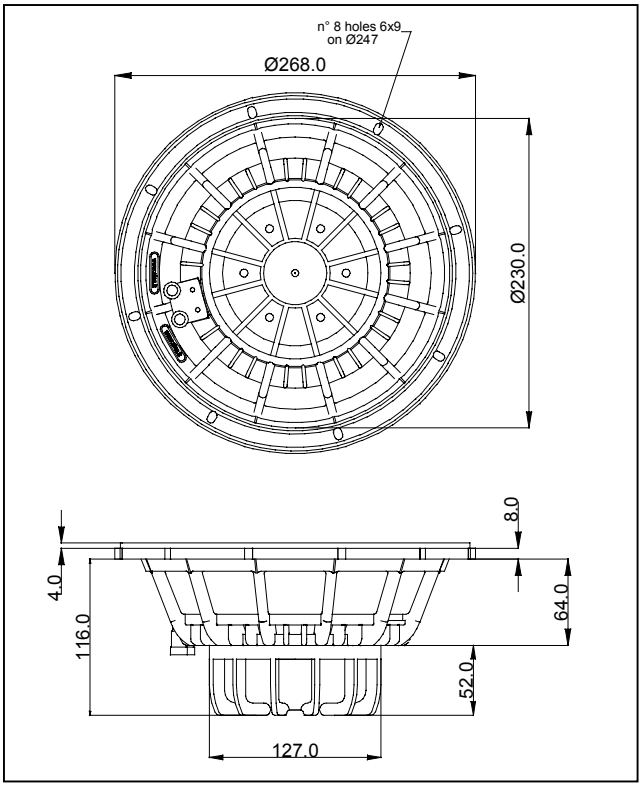
Code Z005840

GENERAL CHARACTERISTICS		
Nominal Overall Diameter	268	mm
Nominal Voice Coil Diameter	75	mm
Magnet Weight	360	g
Flux Density	1.20	T
Weight	2.80	Kg

ELECTRICAL CHARACTERISTICS		
Nominal Impedance	8	Ω
Musical Power	700	W
Rated Power*	350	W
Sensitivity @ 1 W, 1 m	96.9	dB

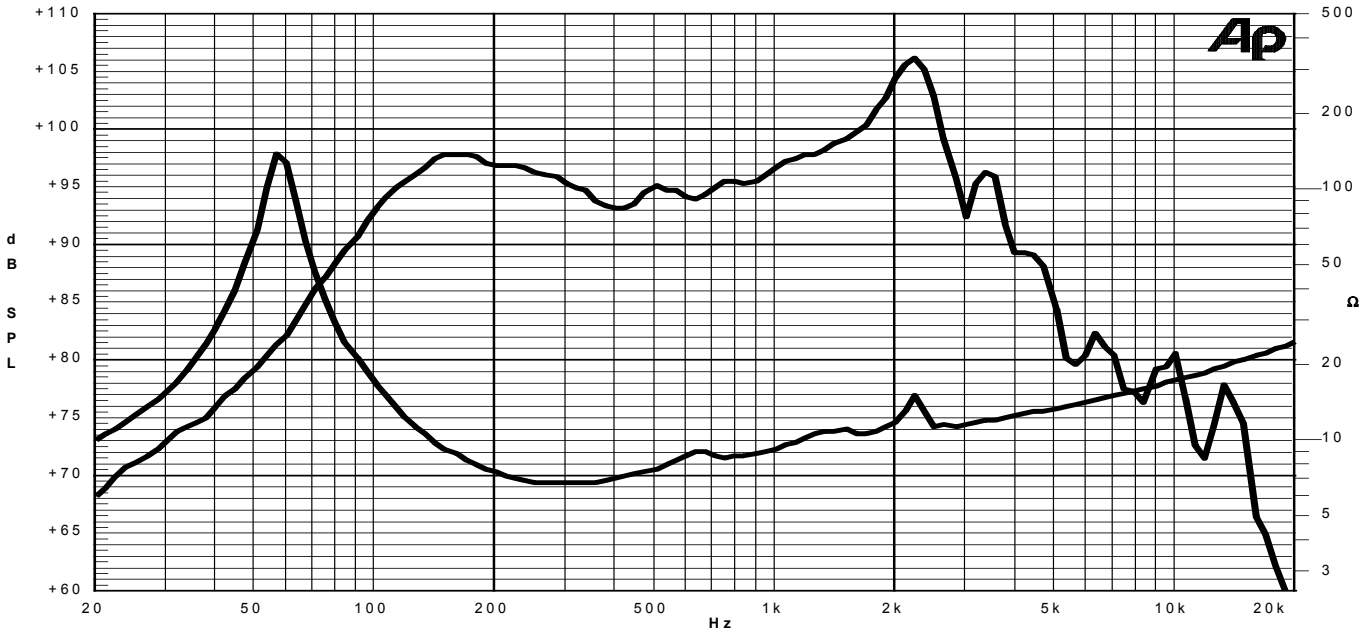
THIELE-SMALL PARAMETERS			
Voice Coil DC Resistance	R_E	5.27	Ω
Resonance Frequency	f_s	56.9	Hz
Mechanical Q Factor	Q_{MS}	8.28	
Electrical Q Factor	Q_{ES}	0.29	
Total Q Factor	Q_{TS}	0.28	
Mechanical Moving Mass	M_{MS}	42.2	g
Mechanical Compliance	C_{MS}	190	µm/N
Force Factor	$B{\times}l$	16.65	Wb/m
Equivalent Acoustic Volume	V_{AS}	31.5	lt.
Maximum Linear Displacement	X_{MAX}	+/-5.0	mm
Reference Efficiency	η_0	1.94	%
Diaphragm Area	S_D	346.3	cm^2
Losses Electrical Resistance	R_{ES}	152.2	Ω
Voice Coil Inductance @ 1kHz	L_E	0.49	mH

CONSTRUCTIVE CHARACTERISTICS	
Magnet	Neodymium
Voice Coil Winding	Aluminium
Voice Coil Former	Kapton
Cone	Paper
Surround	Treated Cloth
Dust Dome	Solid Paper
Basket	Aluminium Die-Cast



**rated power measured with 2 hours test with pink noise signal, 6 dB crest factor, loudspeaker mounted on enclosure*
Thiele-Small parameters measured with LASER system

Frequency Response on IEC Baffle (DIN 45575) @ 1 W, 1 m - Impedance



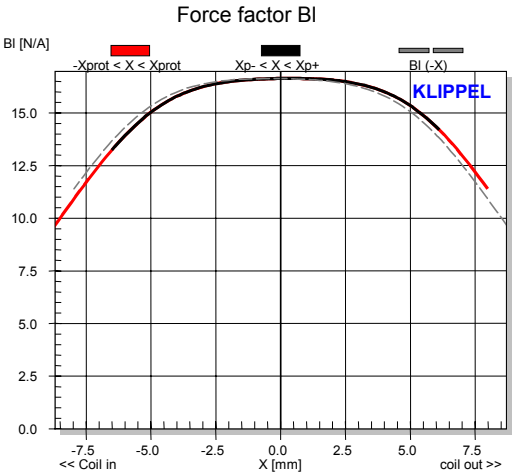
Due to continuing product improvement, the features and the design are subject to change without notice. 24/03/06

CAD AUDIO DK - www.cadaudio.dk - km_cad@yahoo.com - phone/fax +45 38334048

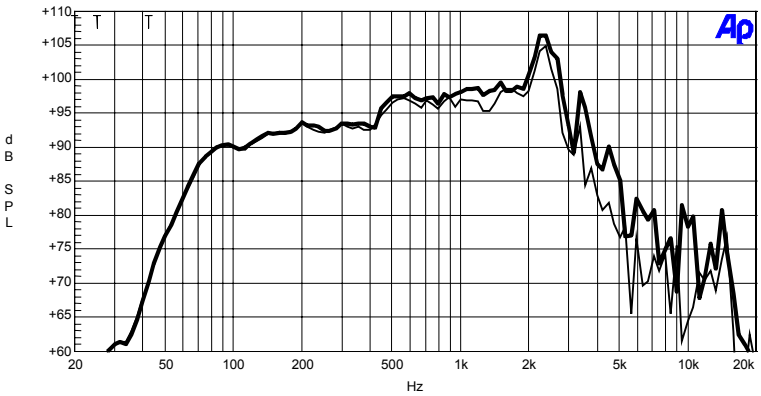
10K3

10” speaker – 3”voice coil

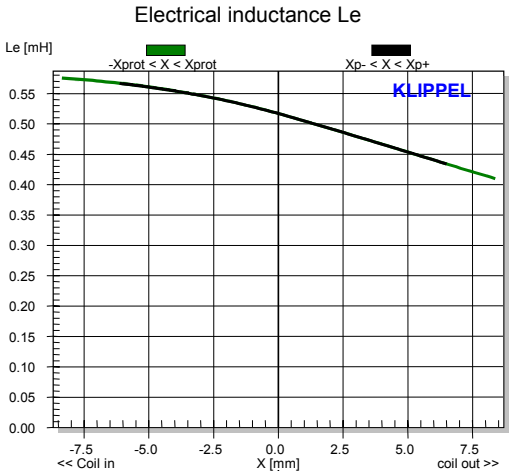
GRAPHICS AND MEASUREMENTS



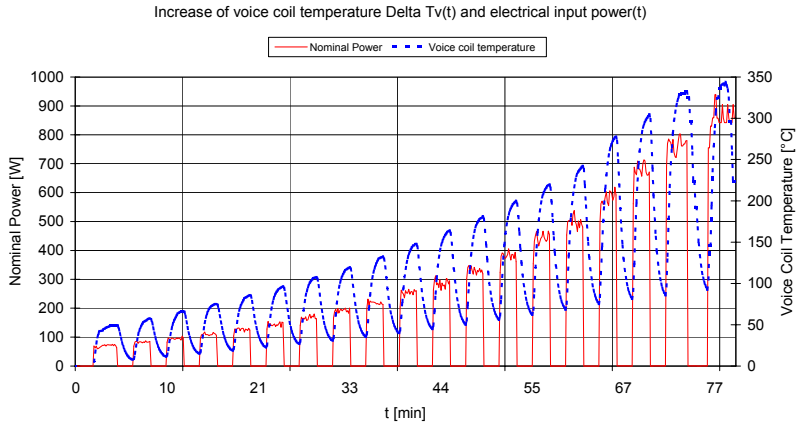
Bl(X): force factor variation with voice coil displacement



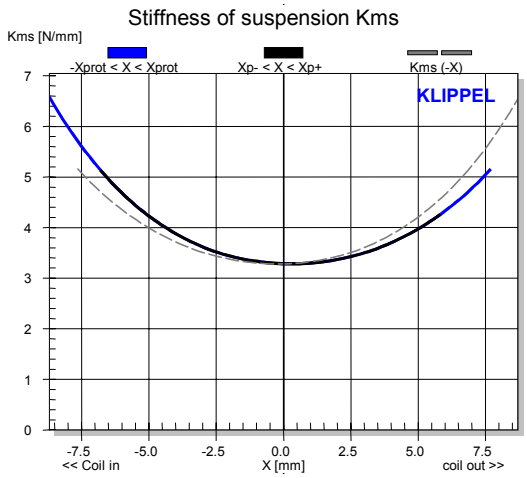
Frequency Response: enclosure volume 39l, port tuning 55Hz (thick curve on axis, thin curve 30° off axis)



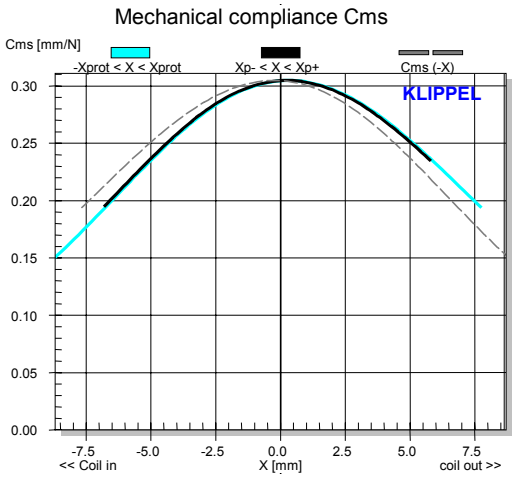
L_e: electrical inductance variation with voice coil displacement



Power test done with intermittent excitation, ON interval 2min, duty cicle 50%, pink noise signal 6dB crest factor with frequency range 50-2000Hz.



K_{ms}: stiffness of suspension variation with voice coil displacement



C_{ms}: mechanical compliance variation with voice coil displacement