

#### GENERAL CHARACTERISTICS

Nominal Overall Diameter .....	388	mm
Nominal Voice Coil Diameter .....	75	mm
Magnet Weight .....	560	g
Flux Density.....	1.42	T
Weight.....	4.00	Kg

#### THIELE-SMALL PARAMETERS

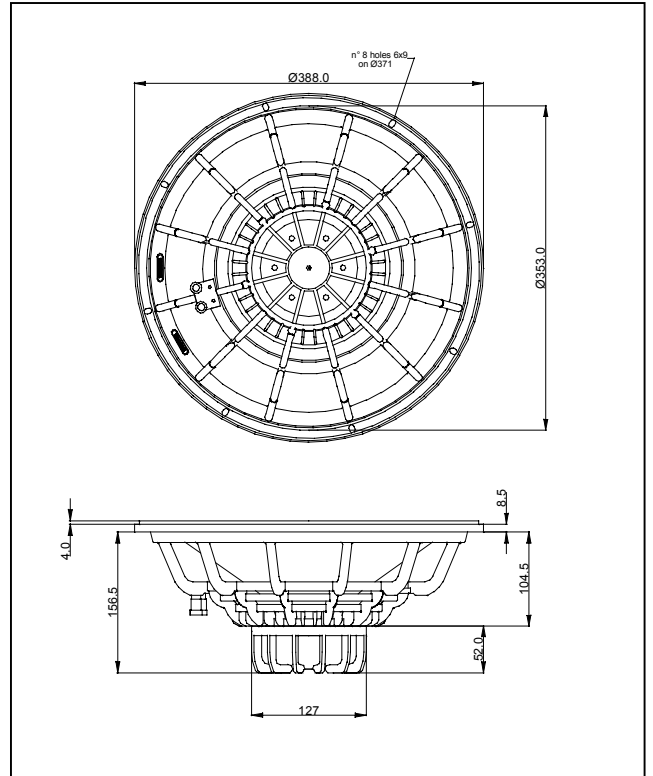
Voice Coil DC Resistance .....	$R_E$	5.34	Ω
Resonance Frequency .....	$f_s$	42.6	Hz
Mechanical Q Factor.....	$Q_{MS}$	9.94	
Electrical Q Factor.....	$Q_{ES}$	0.30	
Total Q Factor .....	$Q_{TS}$	0.29	
Mechanical Moving Mass .....	$M_{MS}$	96.2	g
Mechanical Compliance .....	$C_{MS}$	150	μm/N
Force Factor .....	$B \times l$	21.44	Wb/m
Equivalent Acoustic Volume.....	$V_{AS}$	150.4	lt.
Maximum Linear Displacement ....	$X_{MAX}$	+/-5.0	mm
Reference Efficiency .....	$\eta_0$	3.73	%
Diaphragm Area .....	$S_D$	855.3	cm <sup>2</sup>
Losses Electrical Resistance.....	$R_{ES}$	177.5	Ω
Voice Coil Inductance @ 1kHz .....	$L_E$	0.60	mH

#### CONSTRUCTIVE CHARACTERISTICS

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

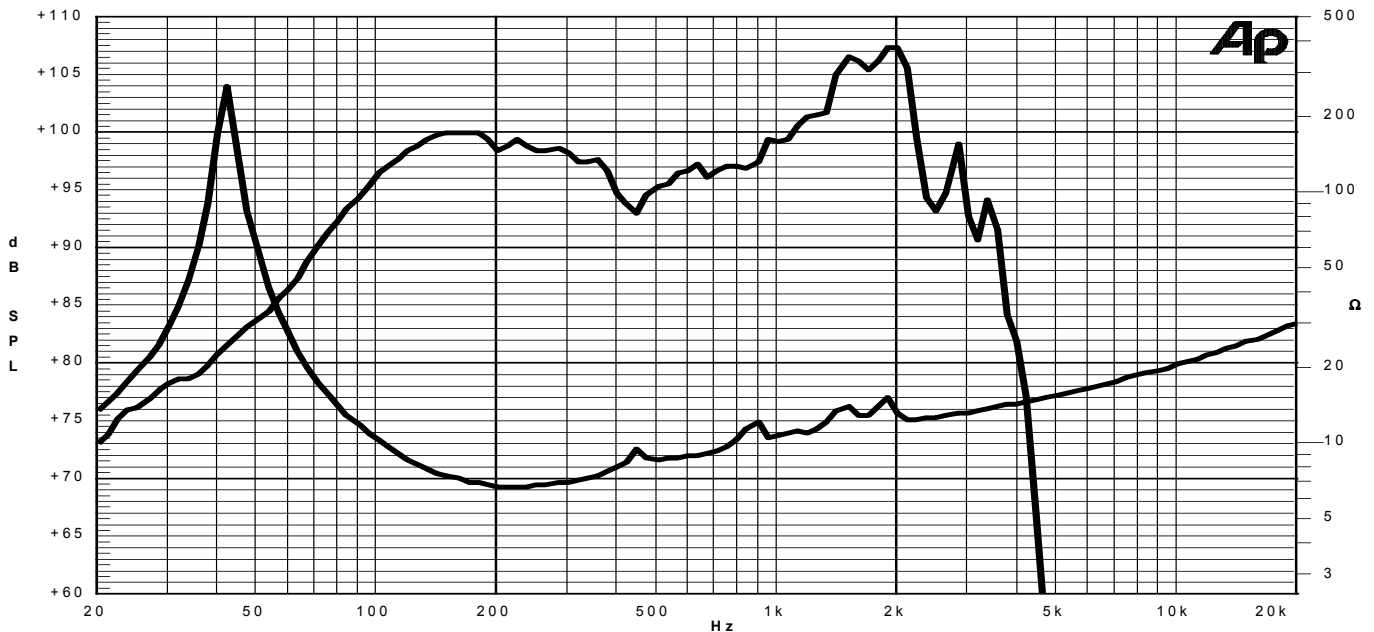
#### ELECTRICAL CHARACTERISTICS

Nominal Impedance.....	8	Ω
Musical Power .....	700	W
Rated Power* .....	350	W
Sensitivity @ 1 W, 1 m .....	99.7	dB



\*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

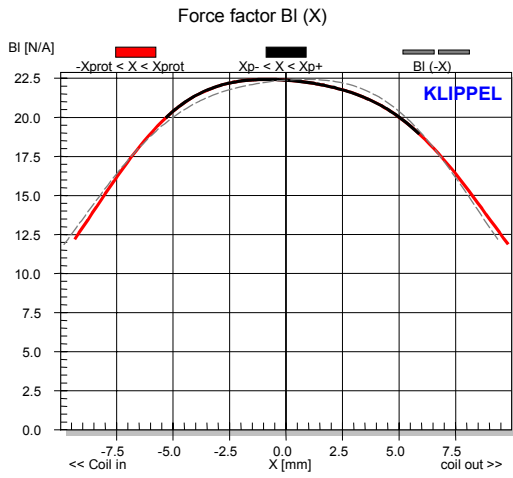
Frequency Response on IEC Baffle (DIN 45575) @ 1 W, 1 m - Impedance



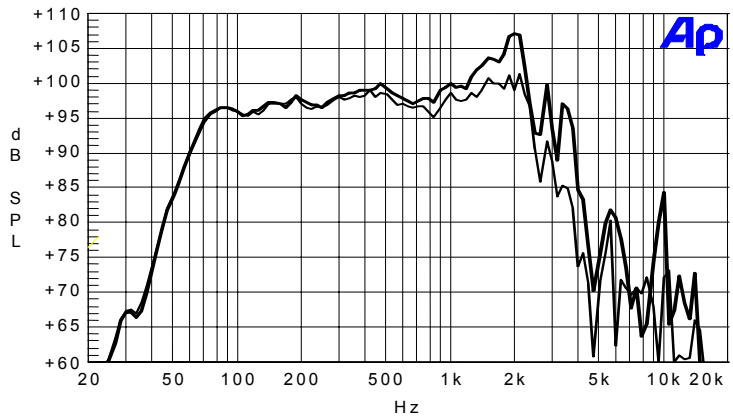
# 15 K 3 PL

15" speaker – 3" voice coil

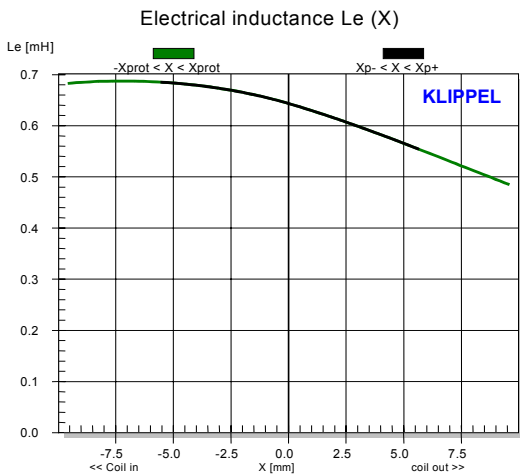
## GRAPHICS AND MEASUREMENTS



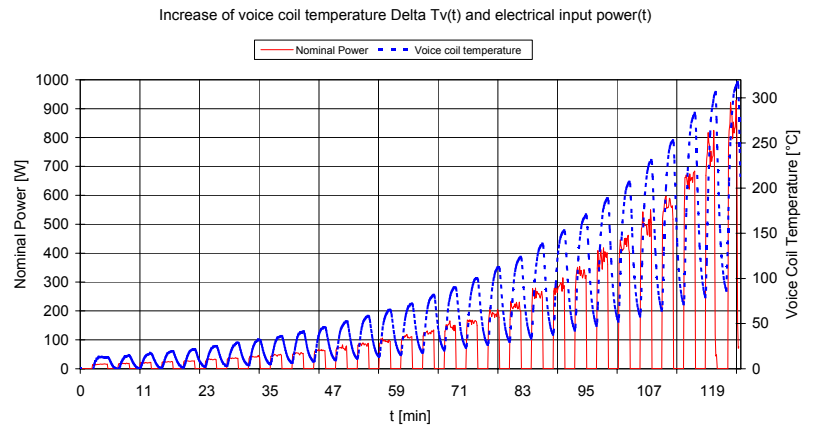
BI(X): force factor variation with voice coil displacement



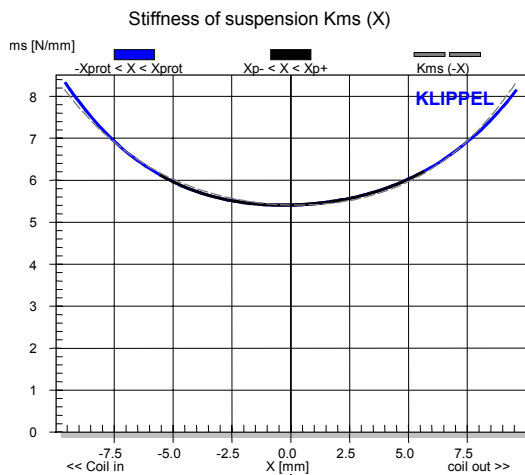
Frequency Response: enclosure volume 80l, port tuning 58Hz (thick curve on axis, thin curve 30° off axis)



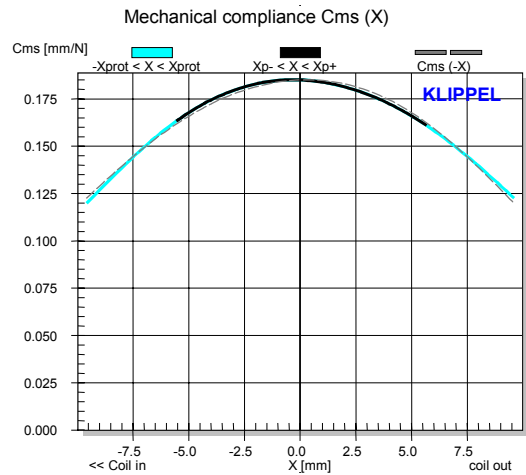
$L_e$ : electrical inductance variation with voice coil displacement



Power test done with intermittent excitation, ON interval 2min, duty cycle 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