accuton®
by Thiel & Partner

S220-6-221*

SANDWICH BASS

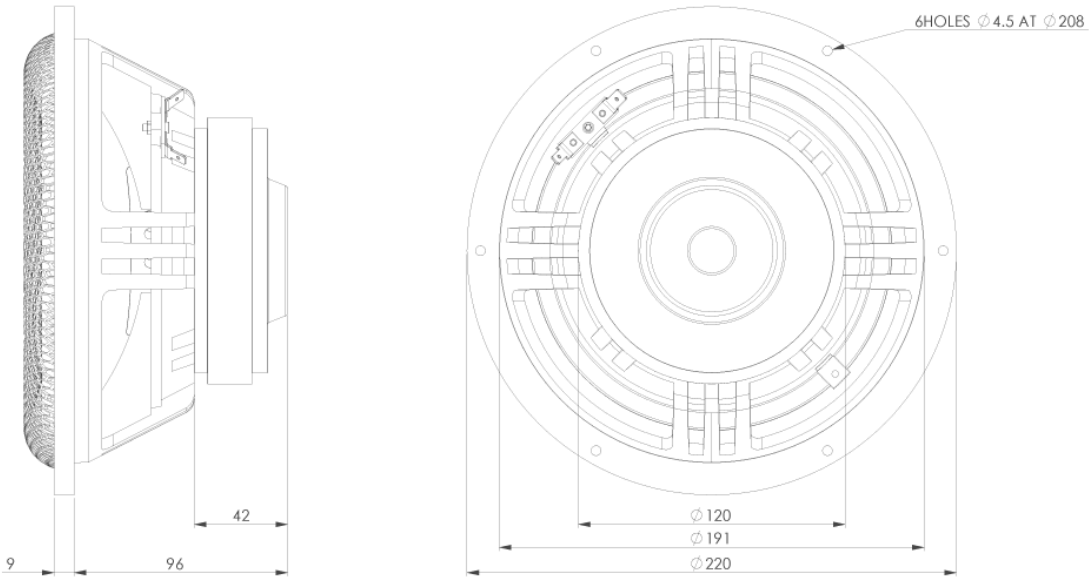
VENTED BOX DESIGN PARAMETERS:

Vb: 66L, Port diameter: 70mm, Length: 300mm, Fres: 22Hz, F-3dB: 27Hz, Q: 0.58 (optimal)
Vb: 101L, Port diameter: 70mm, Length: 150mm, Fres: 23.5Hz, F-3dB: 24Hz, Q: 0.50 (extended bass)
Vb: 56L, Port diameter: 70mm, Length: 300mm, Fres: 24Hz, F-3dB: 29Hz, Q: 0.61 (0.7dB Ripple @ 50Hz)

CLOSED BOX DESIGN PARAMETERS:

Vb: 39L, -4dB @ 40Hz, -13dB @ 20Hz, F-3dB: 42Hz, Q: 0.71 (typical)
Vb: 101L, -4dB @ 40Hz, -10dB @ 20Hz, F-3dB: 44Hz, Q: 0.50 (extended bass)

* also available as 11 Ω Version



DOME MATERIAL	SANDWICH
APPLICATION	BASS
OVERALL DIAMETER	220 MM
CUTOUT DIAMETER	191 MM
OVERALL DEPTH	105 MM
MOTOR ASSEMBLY DEPTH	42 MM
MOTOR ASSEMBLY DIAMETER	120 MM

MAIN FEATURES

overhung motor design
38mm titan voice coil
soft rubber surround
vented vc, pole piece & spider
31 HZ - 1 KHZ in vented box

MECHANICAL DATA

Specification		Value	Unit
Overall diameter		220	mm
Cutout diameter		191	mm
Min. frontplate thickness		9	mm
Overall depth		105	mm
Motor assembly depth		42	mm
Motor assembly diameter		120	mm
Screwfitting		DIN 7984 / Ø 4.50	mm
Terminal		+: 6.3 x 0.8 / -: 4.8 x 0.8	mm
Shipping weight (pair)		6.3	Kg
Shipping box size (pair)		250/290/250	mm

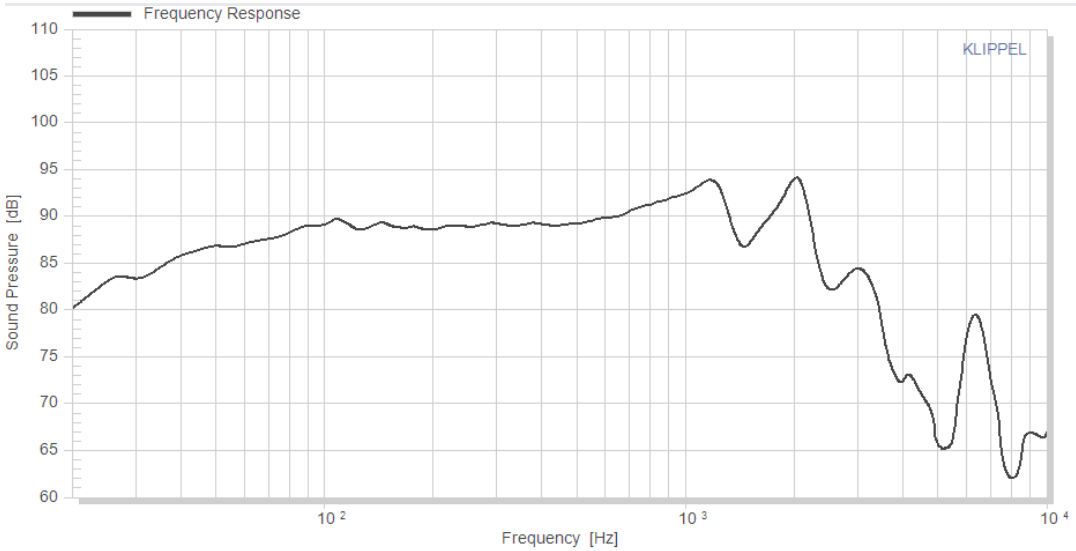
THIELE SMALL PARAMETERS

Specification		Value	Unit
Sensitivity (2.83V / 1m)	Spl	88	dB
DC-resistance	Re	5.9	Ohm
Resonance frequency	Fs	22.1	Hz
Equivalent volume of air	Vas	112.9	ltr
Mechanical Q	Qms	5.73	
Electrical Q	Qes	0.39	
Total Q	Qts	0.37	
Effective piston area	Sd	224	Cm2
Moving mass	Mms	32.8	g
Suspension compliance	CMs	1.58	mm/n
Mechanical resistance	Rms	0.79	Kg*s

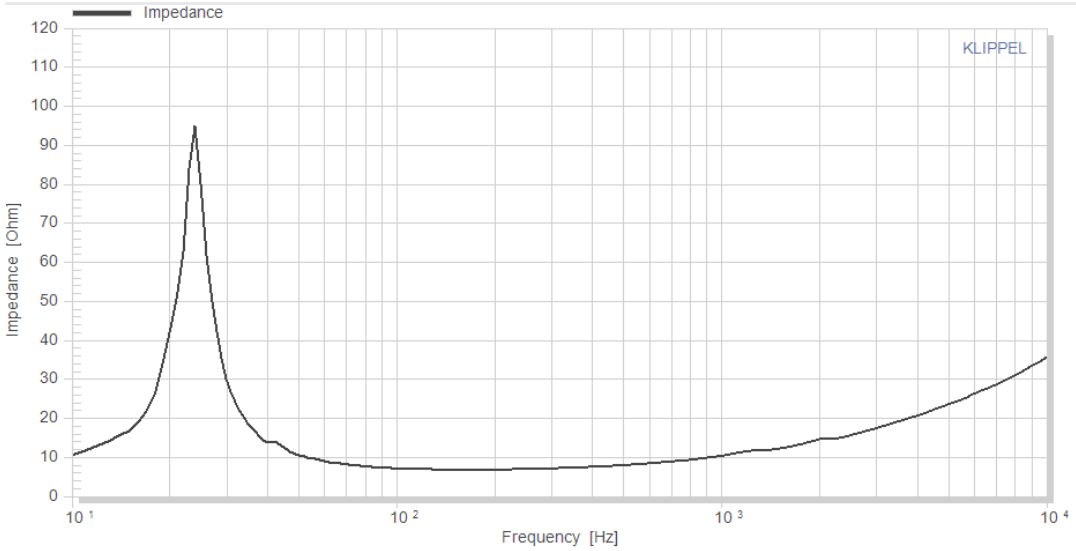
VOICE COIL PARAMETERS

Specification		Value	Unit
Power handling	P	150	W
Linear excursion	Xmax	+/-5	mm
Voice coil diameter		38	mm
Voice coil former material		Ti	
Voice coil material		Cu	
Voice coil inductance	Le	0.81	mH
Force factor	Bl	8.28	N/A
Motor type		Underhung	
Ferrofluid filling		No	

FREQUENCY RESPONSE [DB]



IMPEDANCE [OHM]



DISTORTION [%]