accuton® by Thiel & Partner

C173-6-191*

CERAMIC BASS-MIDRANGE

VENTED BOX DESIGN PARAMETERS

Vb: 12L, Port diameter: 50mm, Length: 220mm, Fres: 45Hz, F-3dB: 50Hz, Q: 0.58 (optimal)
Vb: 18L, Port diameter: 50mm, Length: 150mm, Fres: 43.5Hz, F-3dB: 41Hz, Q: 0.50 (extended bass)
Vb: 10L, Port diameter: 50mm, Length: 240mm, Fres: 48Hz, F-3dB: 52Hz, Q: 0.61 (0.7dB Ripple @ 100Hz)

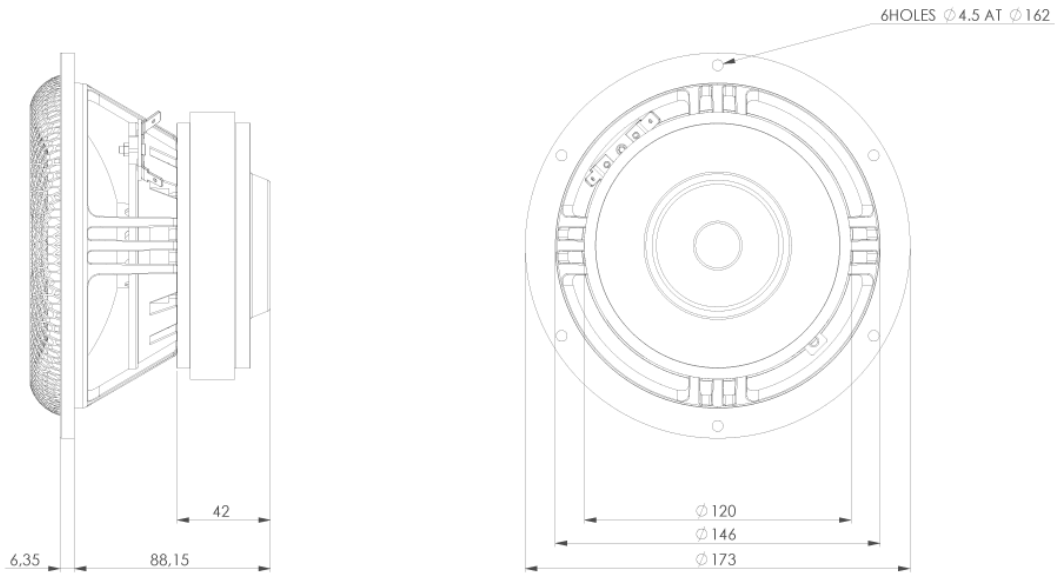
CLOSED BOX DESIGN PARAMETERS

b: 6.5L, -13dB @ 40Hz, F-3dB: 76Hz, Q: 0.71 (typical)
Vb: 18L, -10dB @ 40Hz, F-3dB: 85Hz, Q: 0.50 (extended bass)

HIGHLIGHTS

7 inch bass-midrange for small bookshelf monitors.
Medium sized voice coil with 38mm titanium voice coil former for high midrange resolution.
Long excursion design for high SPL capabilities.
Successor to C173-6-095 - higher excursion, smaller box size.

* also available as 11 Ω Version



MOTOR ASSEMBLY DIAMETER	120 MM

MAIN FEATURES

overhung motor design
38 mm Titanium VC Former
High Shape Rubber Surround
Vented VC, Pole Piece & Spider
35 HZ - 2.8 KHZ in closed Box

MECHANICAL DATA

Specification		Value	Unit
Overall diameter		173	mm
Cutout diameter		146	mm
Min. frontplate thickness		6.35	mm
Overall depth		94.5	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)		5.3	Kg
Shipping box size (pair)		210/280/210	mm

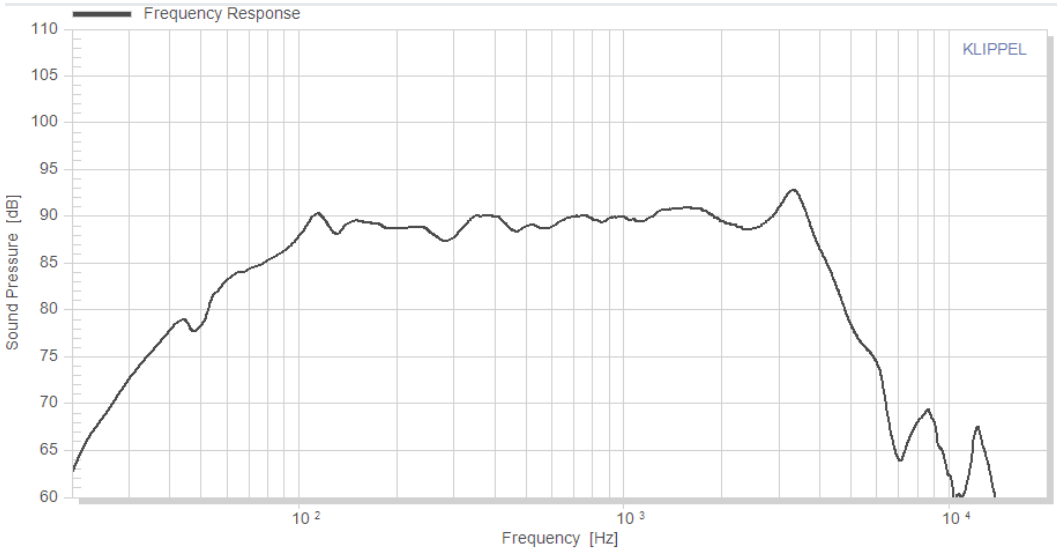
THIELE SMALL PARAMETERS

Specification		Value	Unit
Sensitivity (2.83V / 1m)	Spl	88	dB
DC-resistance	Re	5.9	Ohm
Resonance frequency	Fs	38.6	Hz
Equivalent volume of air	Vas	21.6	ltr
Mechanical Q	Qms	5.27	
Electrical Q	Qes	0.37	
Total Q	Qts	0.34	
Effective piston area	Sd	133	Cm2
Moving mass	Mms	19.8	g
Suspension compliance	CMs	0.86	mm/n
Mechanical resistance	Rms	0.91	Kg*s

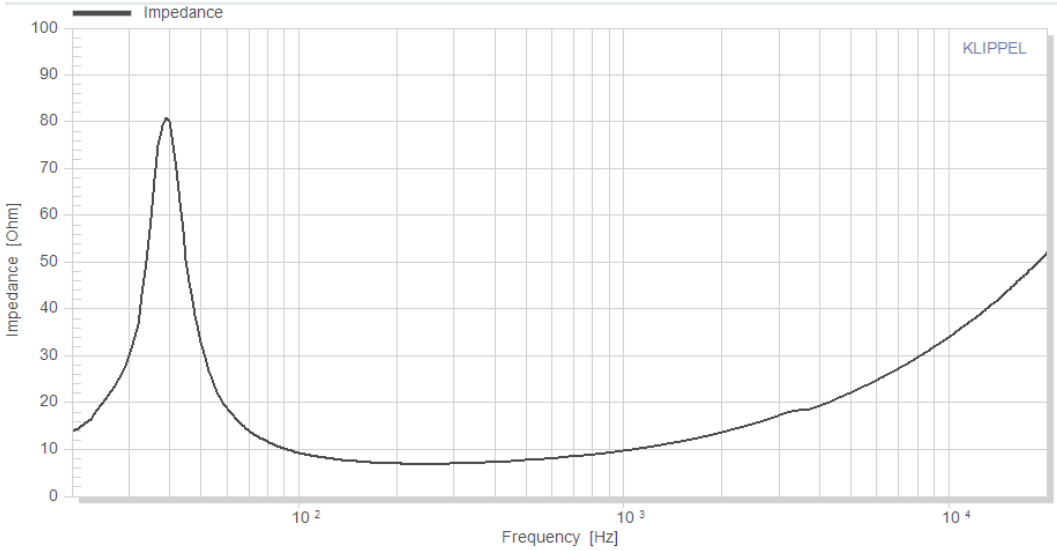
VOICE COIL PARAMETERS

Specification		Value	Unit
Power handling	P	120	W
Linear excursion	Xmax	+/-5	mm
Voice coil diameter		38	mm
Voice coil former material		Ti	
Voice coil material		Cu	
Voice coil inductance	Le	0.72	mH
Force factor	Bl	8.8	N/A
Motor type		Overhung	
Ferrofluid filling		No	

FREQUENCY RESPONSE [DB]



IMPEDANCE [OHM]



DISTORTION [%]