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ceramic drivers - carefully made in Germany by Thiel & Partner GmbH, D-50259 Pulheim

Thiel & Partner C²220-T6

item number: #C220-T6/38/16/2-6F120/34-R32



Bass-midrange driver with 172 mm light weight concave ceramic dome, high loss rubber surround and titanium voice coil former. Made without ears for high excursion. Perfect choice for large 2-way systems as bass-midrange driver or high quality 3-way systems as bass unit. Very well suited for subwoofer designs due to low resonance frequency.

The ultra hard ceramic dome material moves without flexing losses like a piston from 20 Hz to 2.5 kHz. It features very low distortion and virtually no coloration.



Thiele/Small Parameters:

sensitivity	E	89.6	dB
DC-resistance	R	5.9	Ohm
resonance freq.	fres	20.4	Hz
equival. vol. of air	Vas	144	l
mechanical Q	Qms	4.49	
electrical Q	Qes	0.29	
total Q	Qts	0.272	
eff. piston area	S	233	cm ²

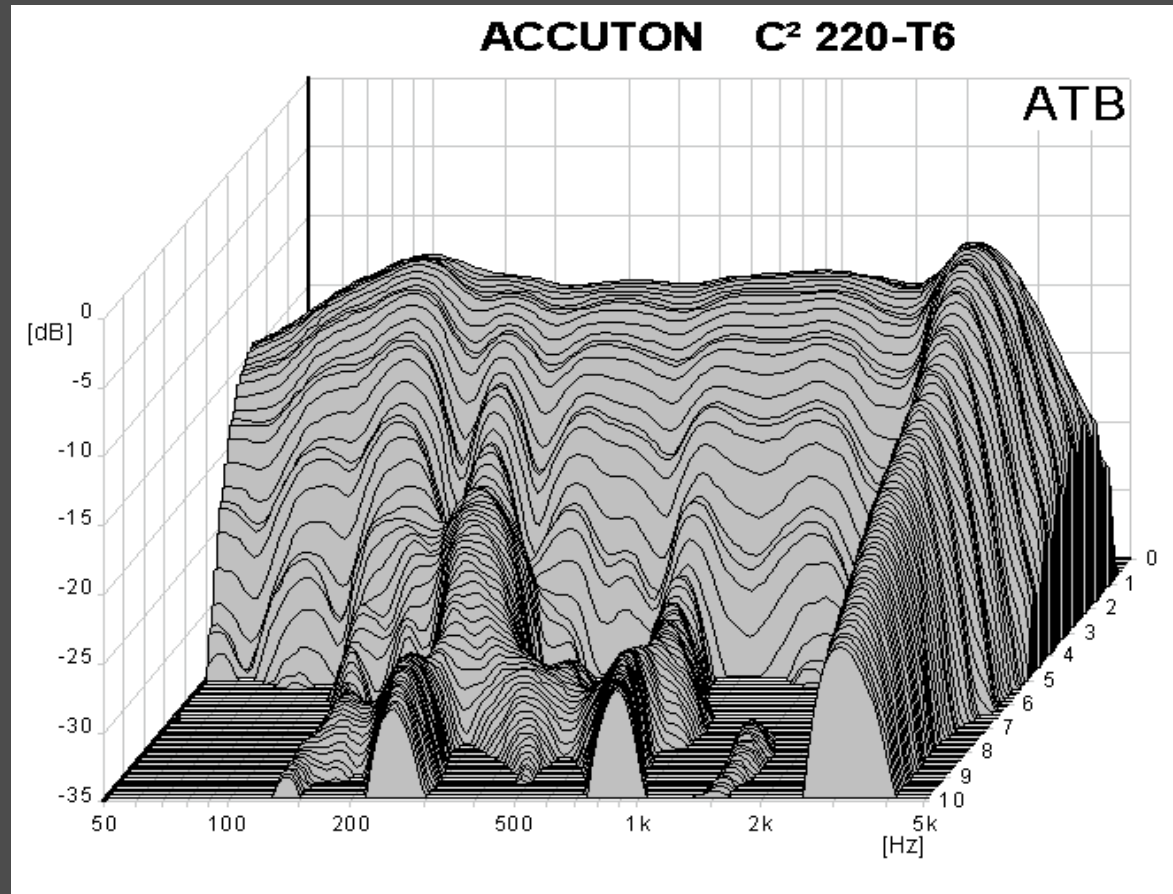
Voice coil / Magnet Data:

power handling	P	150	Watt
voice coil diameter	D	38	mm
voice coil former		Ti	
voice coil height	h	16.4	mm
number of layers		2	
voice coil inductance	Lbm	0.61	mH
pole plate thickness		6.0	mm
linear excursion	Xmax	±5.2	mm

moving mass	Mms	31.9	g	flux density	B	1.2	T
suspension compl.	Cms	1.91	mm/N	force factor	BL	9.1	NA ⁻¹
mech. resistance	Rms	0.91	kg/s ⁻¹	ferrofluid filling		no	

recommended frequency range: 20 Hz - 2.5 kHz

recommended enclosure: [35 - 50 l vented enclosure](#)



Mechanical Dimensions:			Shipping information:		
outer dimensions	222	mm	net weight / piece	2950	g
cutout dimensions	188	mm	gross weight / pair	6.0	kg
frontplate thickness	6.4	mm	box size / pair	24 x 24 x 36	cm
overall depth	120	mm	quantity shipping unit	8	pcs
mounting hole diameter	5.0	mm	weight shipping unit	25	kg
mounting hole circle	210	mm	size shipping unit	60 x 41 x 32	cm

Click below for more technical information:

» [C²220-T6 ATB measurements - PDF - 19 KByte](#)

opens a PDF file with ATB measurements of amplitude, on axis and 30 degrees, impedance, step response, K2 and K3 distortion. Measurements made by Bernhard Thiel with IEC norm baffle. You will need Adobe Acrobat 4.0 to view this file.

» [C²220-T6 MLSSA measurements - HTML - 24 KByte](#)

opens new page with MLSSA measurements made by Dipl.Ing. Bernd Timmermanns, former chief editor of "Klang & Ton", now chief editor of "Hobby Hifi", the German speaker builder magazine. Measurements include amplitude (SPL), impedance, step response and spectral decay plot (waterfall diagram).

» [C²220-T6 - 35 l vented box simulation - PDF - 37 KByte](#)

opens a PDF file with an enclosure simulation made with BassBoxPro. You will need Adobe Acrobat Reader 4.0 to view this file.

» [C²220-T6 technical drawing - PDF - 54 KByte](#)

opens a PDF file with technical drawing of this driver. You will need Adobe Acrobat Reader 4.0 to view this file.

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