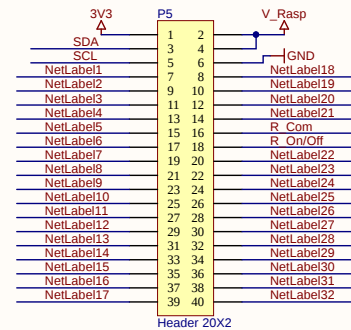
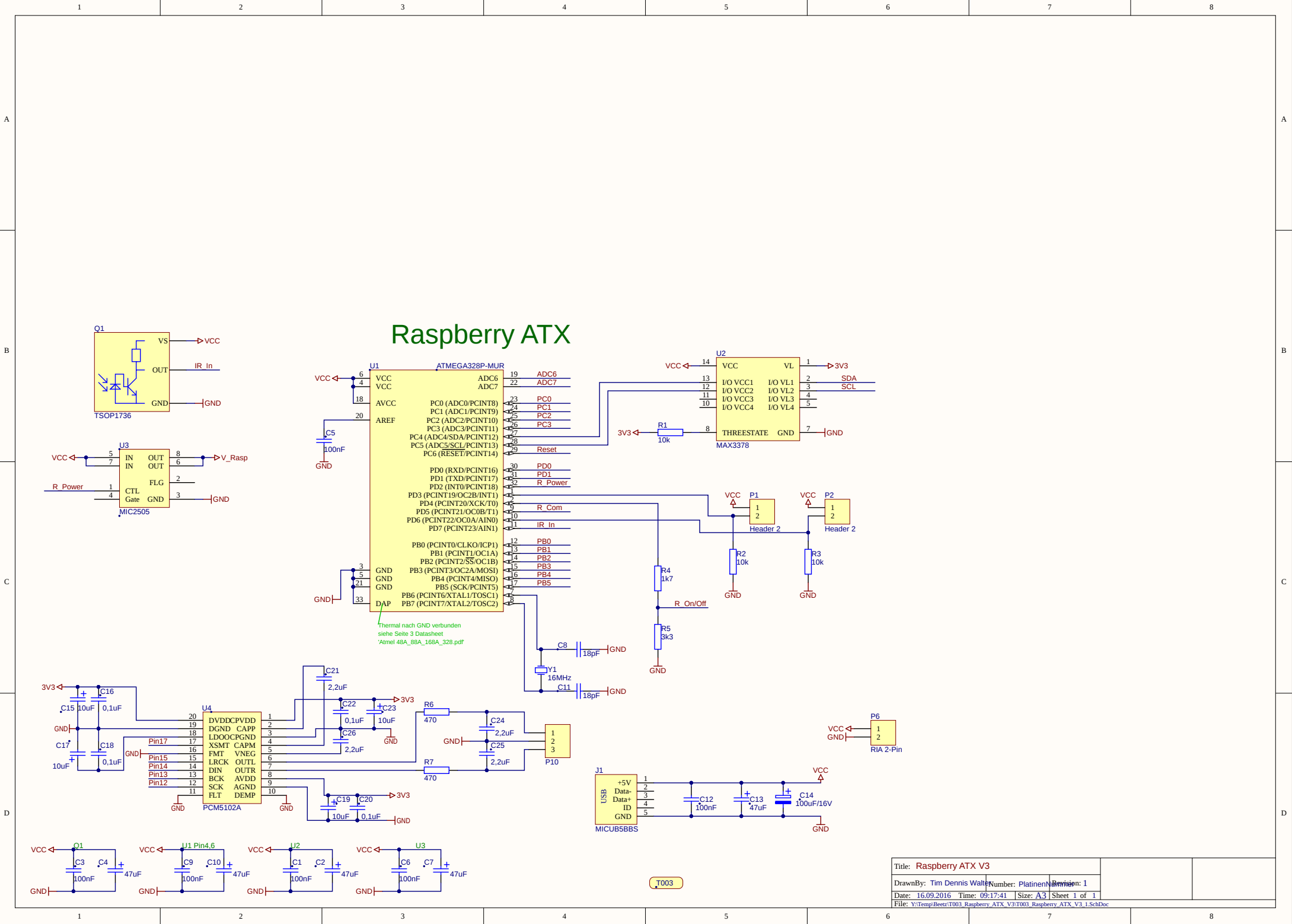
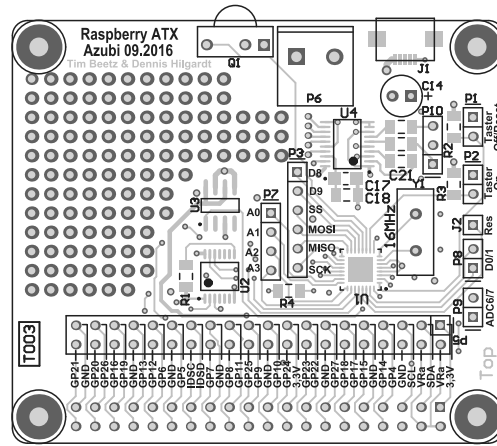
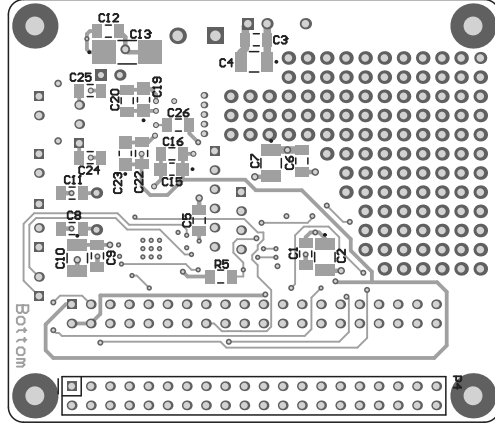


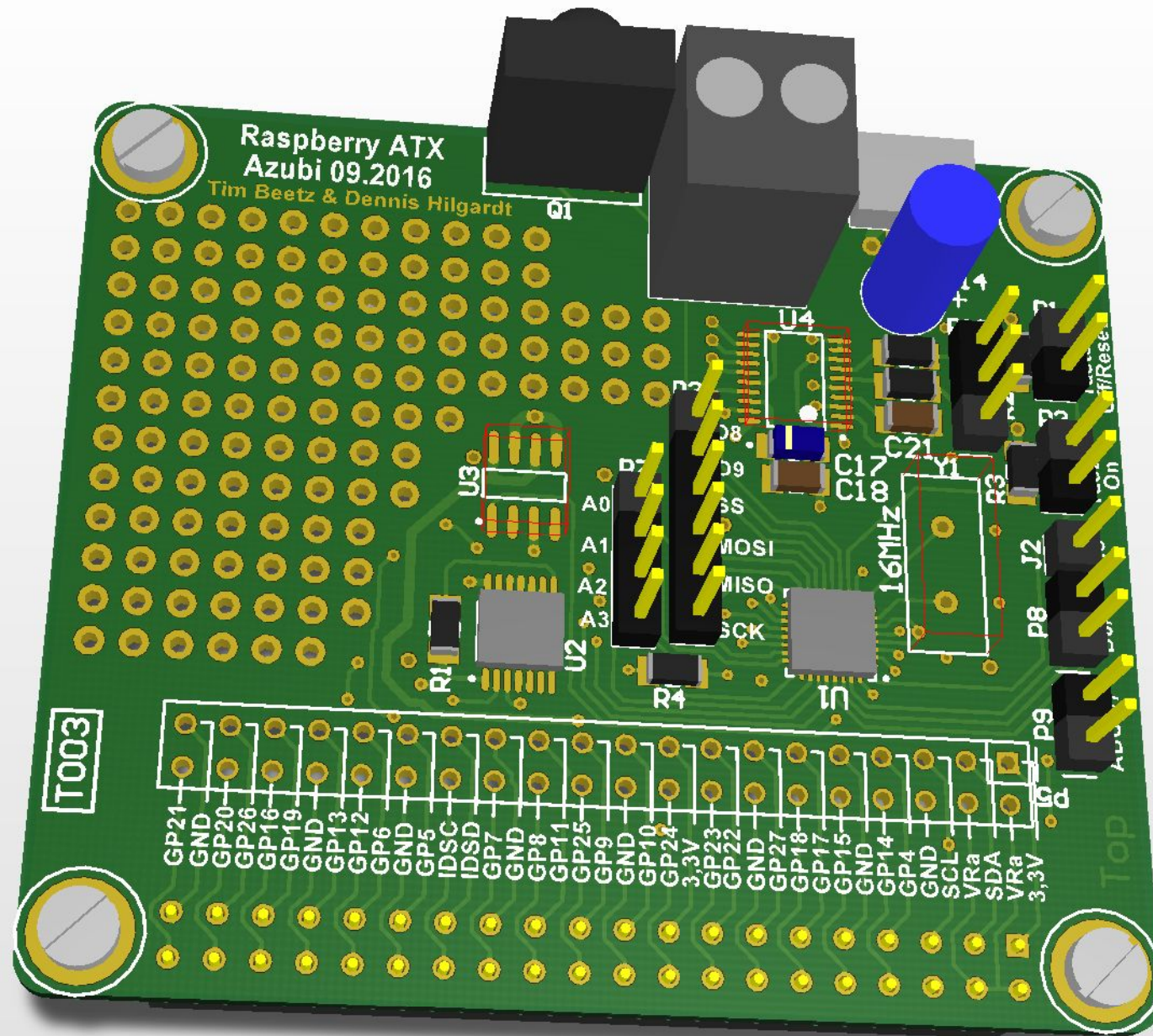


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DrawnBy: Tim Dennis Walter	Number: Platinen	Revision: 1	
Date: 16.09.2016	Time: 09:17:41	Size: A3	Sheet 1 of 1
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Raspberry ATX Azubi 09.2016

Tim Beetz & Dennis Hilgardt

Q1

J1

P14

U4

P3

D8

D9

SS

MOSI

MISO

SCK

C1

16MHz

Y1

R3

P10

R2

P1

P2

P3

P4

P5

P6

P7

P8

P9

P10

P11

P12

P13

P14

P15

P16

P17

P18

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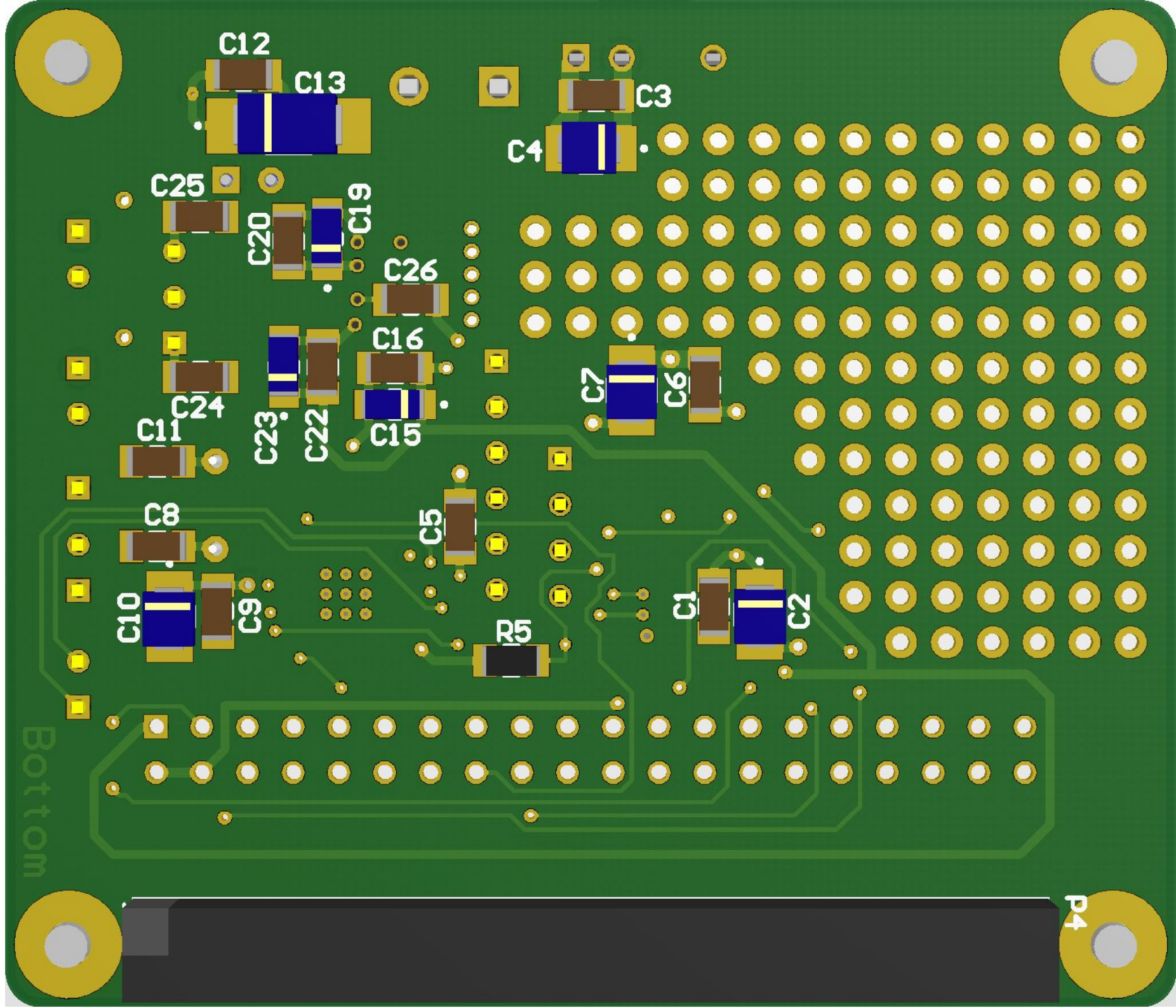
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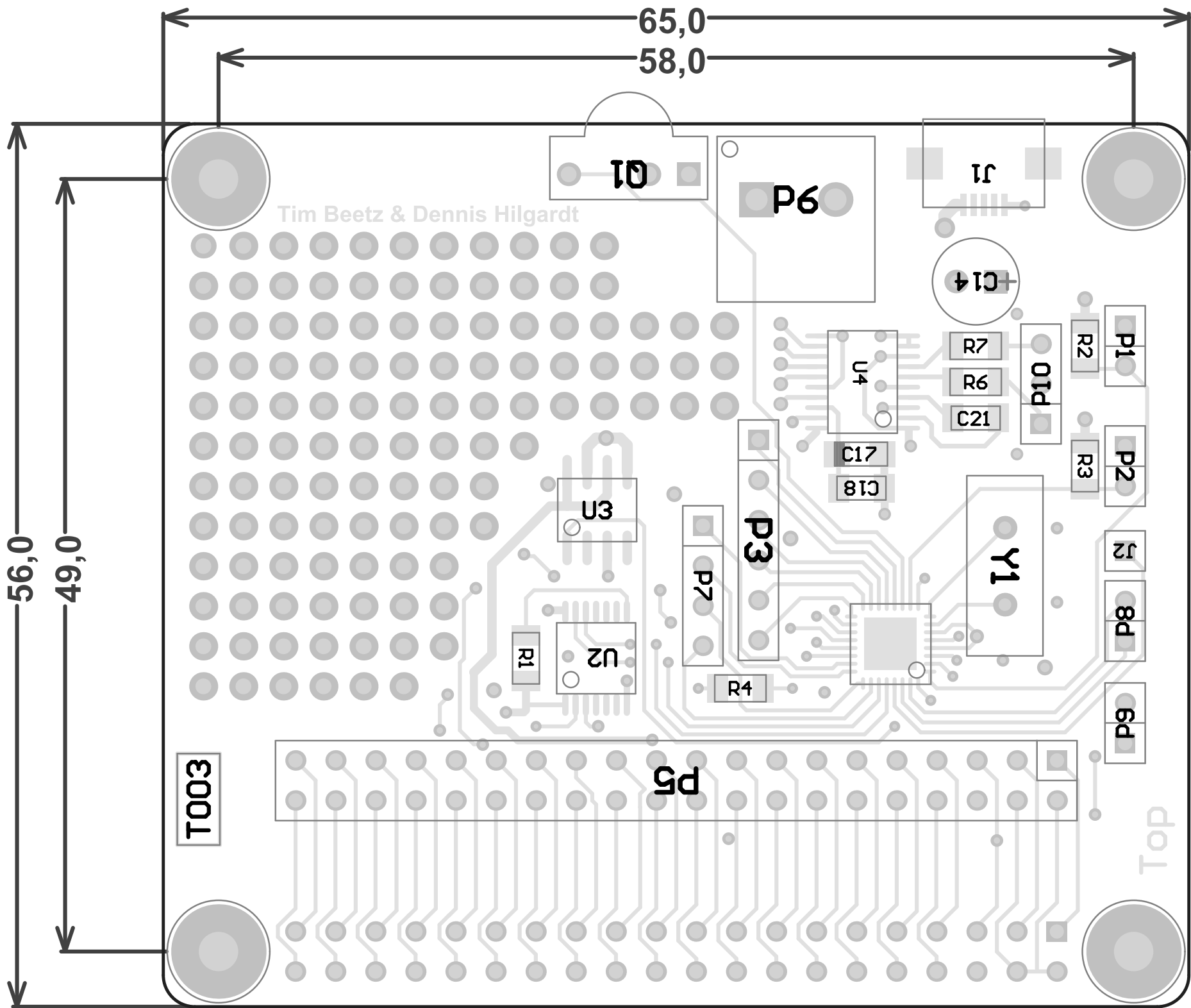
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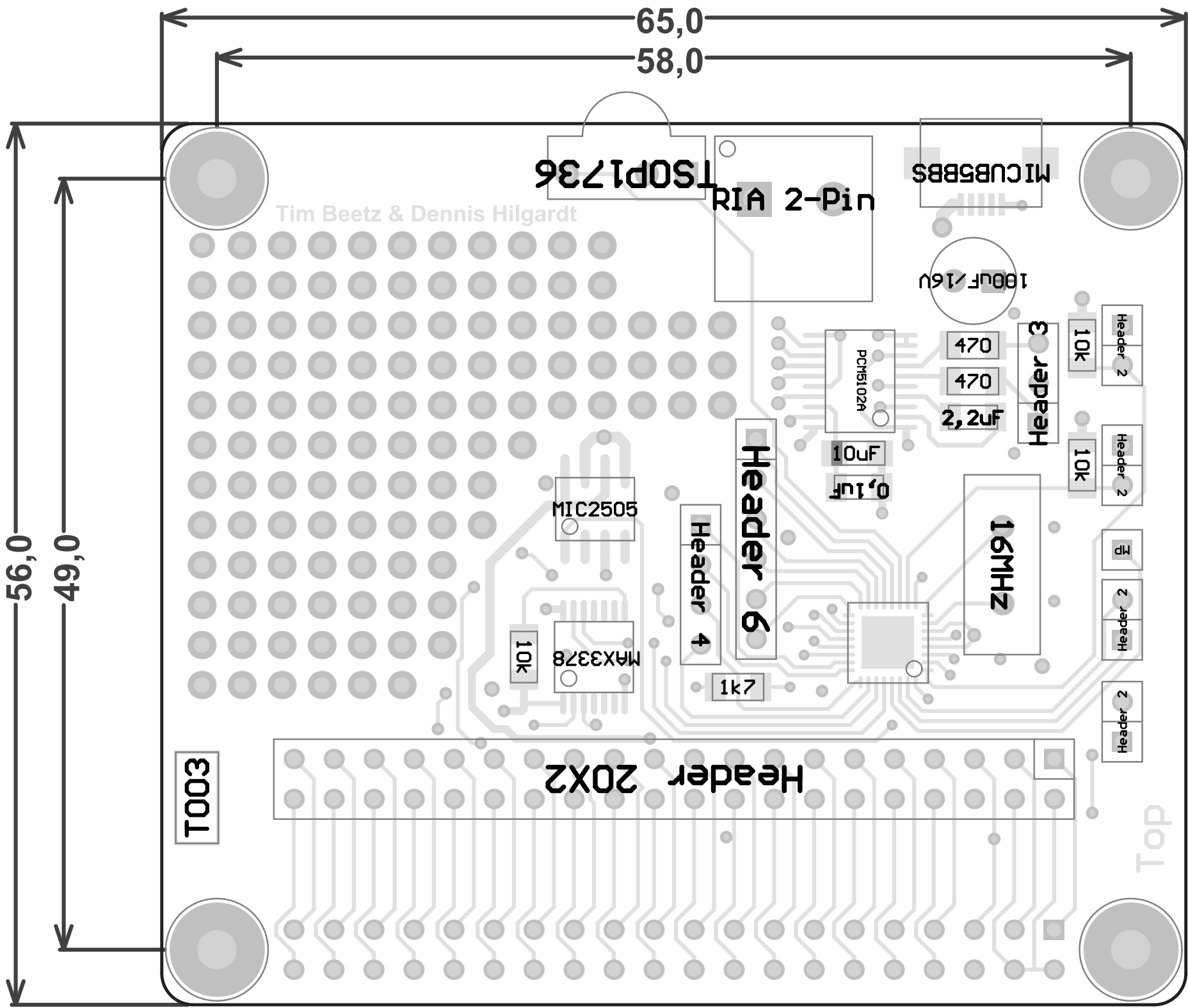
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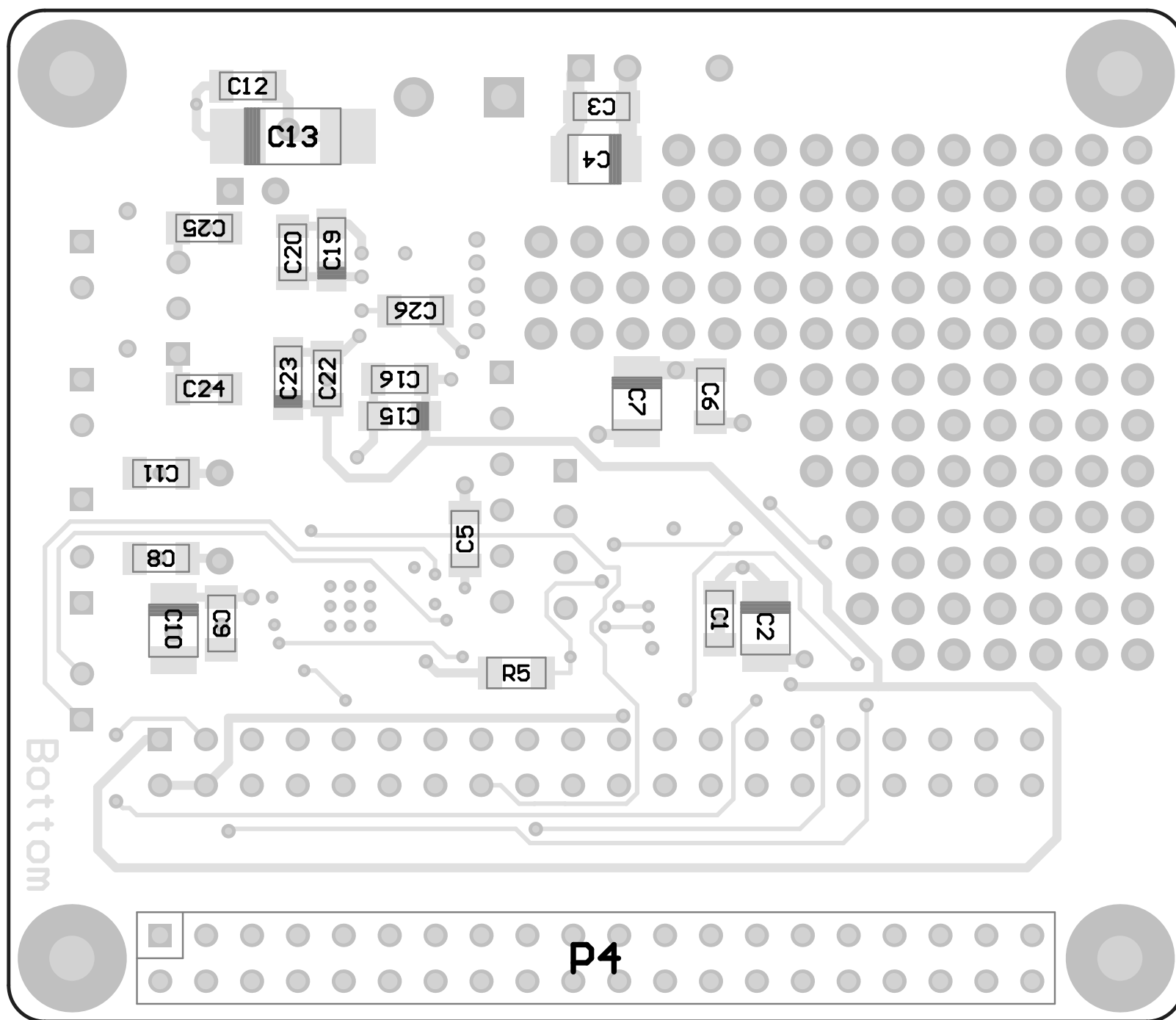
P311

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Type	Designator	Part Description	Value	Mfr Part Number	Quantity	Price	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2	Supplier Unit Price 1	Supplier Unit Price 2	Distributor info	
CAP	C1, C3, C5, C6, C9, C12	Capacitor ceramic, chip	100nF	e.g. Vishay VJ1210Y104K0CT (100nF)	6	0.4							e.g. RS 499-7526 (100nF)	
CAP	C2, C4, C7, C10	Capacitor tantalum, molded	47uF	e.g. Vishay 593D226X9R382TE 3 (22uF/16.3V)	4	0.25							e.g. RS 684-4547 (22uF/16.3V)	
CAP	C8, C11	Capacitor ceramic, chip	18pF	e.g. Vishay VJ1210Y104K0CT (100nF)	2	0.4							e.g. RS 499-7526 (100nF)	
CAP	C13	Capacitor tantalum, molded	47uF	e.g. Vishay 593D336X9016C2TE 3 (33uF/16V)	1	0.79							e.g. RS 684-4569 (33uF/16V)	
CAP	C14	Capacitor electrolytic, radial	100uF/16V	Vishay 2222-036-35101	1	0.5							FZJ 501.32.261	
CAP	C15, C17, C19, C23	Capacitor tantalum, molded	10uF	e.g. Vishay 593D106X9016A2TE 3 (10uF/16V)	4	0.27							e.g. RS 684-4443 (10uF/16V)	
CAP	C16, C18, C20, C22	Capacitor ceramic, chip	0.1uF	e.g. Vishay VJ1210Y104K0CT (100nF)	4	0.4							e.g. RS 499-7526 (100nF)	
CAP	C21, C24, C25, C26	Capacitor ceramic, chip	2.2uF	e.g. Vishay VJ1210Y104K0CT (100nF)	4	0.4							e.g. RS 499-7526 (100nF)	
CON	J1	USB Connectors	MICUB58B5	MICUB58B5	1	1.15							Conrad 1311379 - 62	
CON	J2	Header, 1-Pin, Test Point	MP	Samtec TSW-102-07 L-S (2Pin)	1	0.09							RS 767-0823 (2Pin)	
CON	P1, P2, P8, P9	Header, 2-Pin	Header 2	Samtec TSW-102-07 L-S	4	0.18	Digi-Key	SAM1031-02-ND			0.64		RS 767-0823	
CON	P3	Header, 6-Pin	Header 6	Samtec TSW-106-07 L-S	1	0.52	Farnell		1668590	Digi-Key	SAM1031-06-ND	0.61	0.85	RS 767-0937
CON	P4	Socket, 20-Pin, Dual row	Socket 20X2		1	3								
CON	P5	Header, 20-Pin, Dual row	Header 20X2	Samtec TSW-120-07 L-D	1	3.48	Digi-Key	SAM1030-20-ND				3.22		RS 767-1167
CON	P6	RIA, Klemmblock, 2-Pol	RIA 2-Pin	RIA 31012102 Typ:AKL 012-02	1	0.42								Reichelt AKL 012-02
CON	P7	Header, 4-Pin	Header 4	Samtec TSW-104-07 L-S	1	0.36								RS 767-0877
CON	P10	Header, 3-Pin	Header 3	Samtec TSW-103-07 L-S	1	0.27	Digi-Key	SAM1031-03-ND				0.69		RS 767-0858
IC	Q1	IR receiver	TSOP1736	TSOP1736	1	1.55								Conrad 171069 - 62
RES	R1, R2, R3	Resistor SMD	10k	e.g. Walsin WR12X1001FTL (1001=1k E96-Series)	3	0.02								e.g. Arrow WR12X1001FTL
RES	R4	Resistor SMD	1k7	e.g. Walsin WR12X1001FTL (1001=1k E96-Series)	1	0.02								e.g. Arrow WR12X1001FTL
RES	R5	Resistor SMD	3k3	e.g. Walsin WR12X1001FTL (1001=1k E96-Series)	1	0.02								e.g. Arrow WR12X1001FTL
RES	R6, R7	Resistor SMD	470	e.g. Walsin WR12X1001FTL (1001=1k E96-Series)	2	0.02								e.g. Arrow WR12X1001FTL
IC-C	U1	Microcontroller, Atmel	ATMEGA328P-MUR	Atmel ATMEGA328P-MUR	1	3.30	Digi-Key	ATMEGA328P-MURCT-ND				3.43		
IC	U2	Level Translator	MAX3378	MAX3378EUD	1	2.20	Digi-Key	MAX3378EUD+-ND				2.2		RS Best.-Nr. 732-9440
IC	U3	High-Side Switch	MIC2505	MIC2505-1YM	1	2.18								RS Best.-Nr. 727-2659
IC	U4	Audio-DAC	PCM5102A		1	0								PCM5102A
XTAL	Y1	Crystal Oscillator HC49	16MHz		1	1								

[illegible]