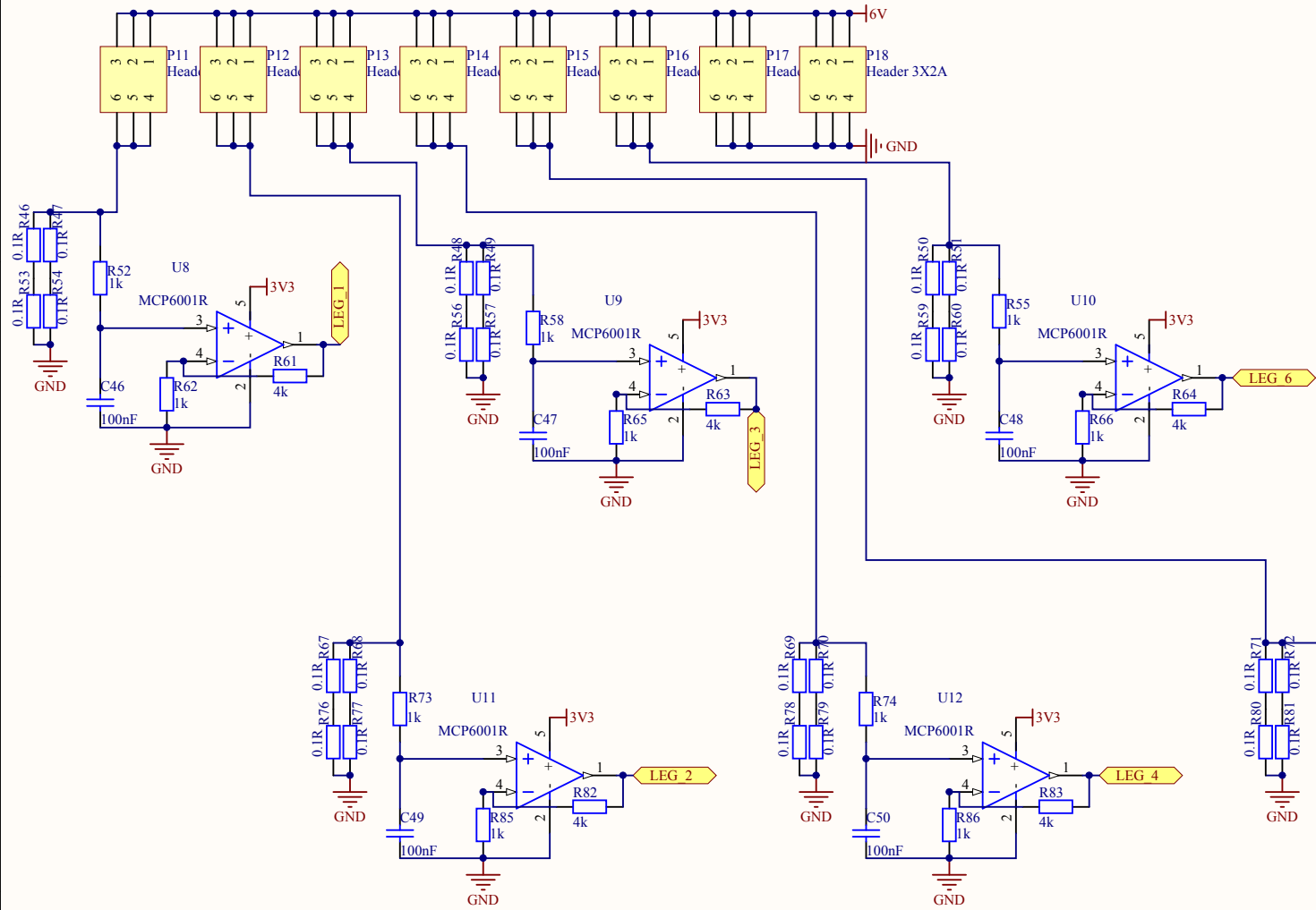
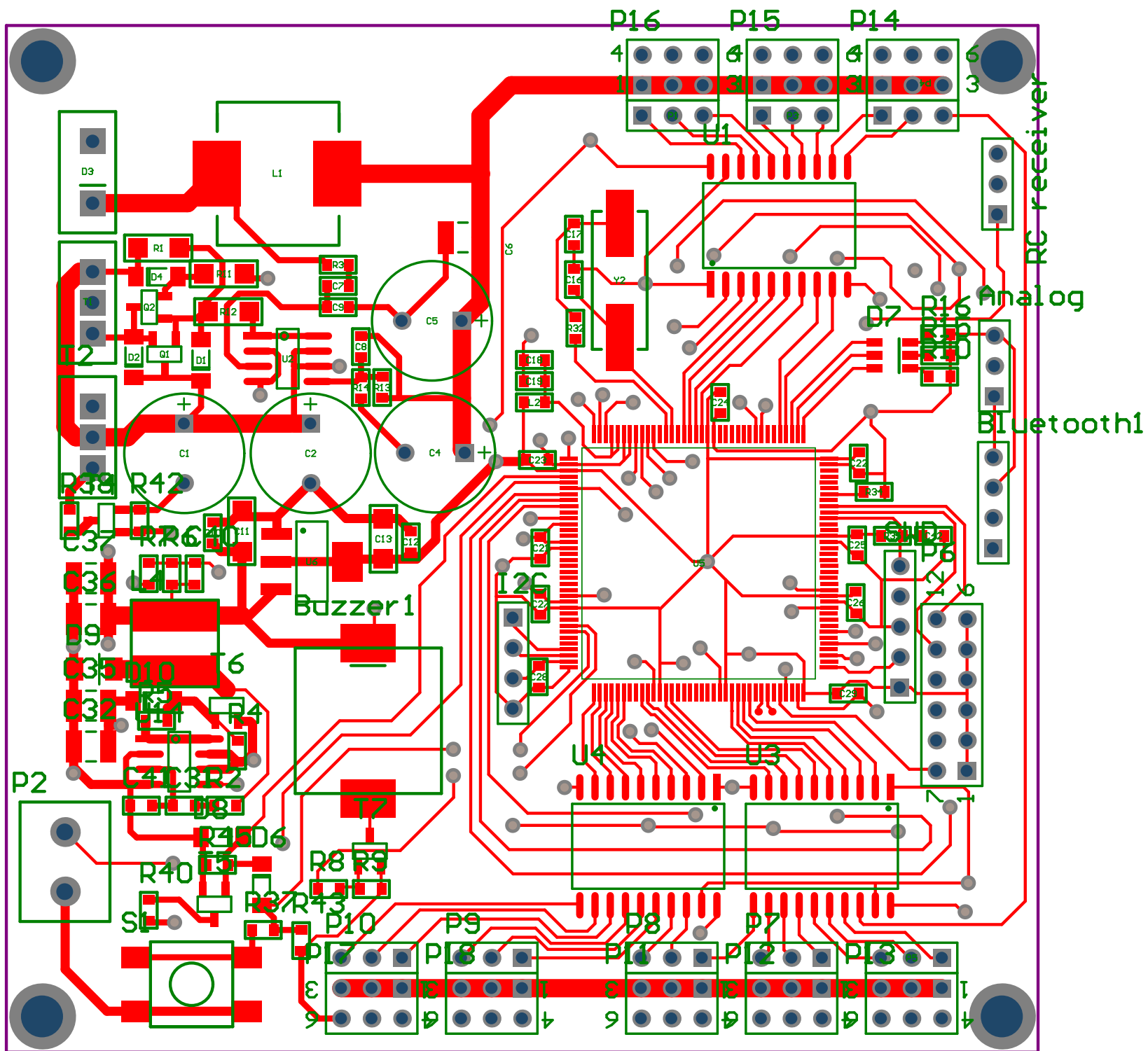
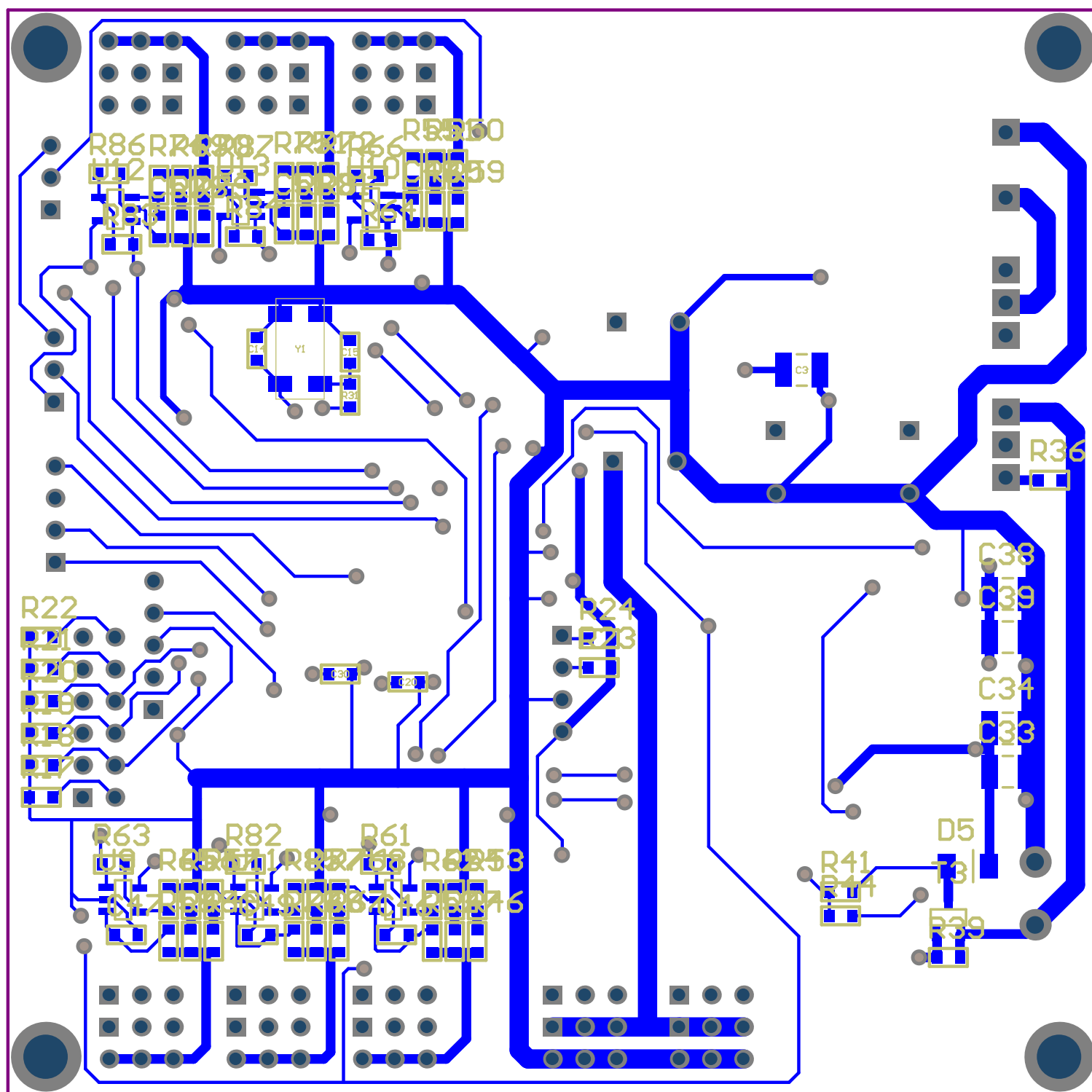


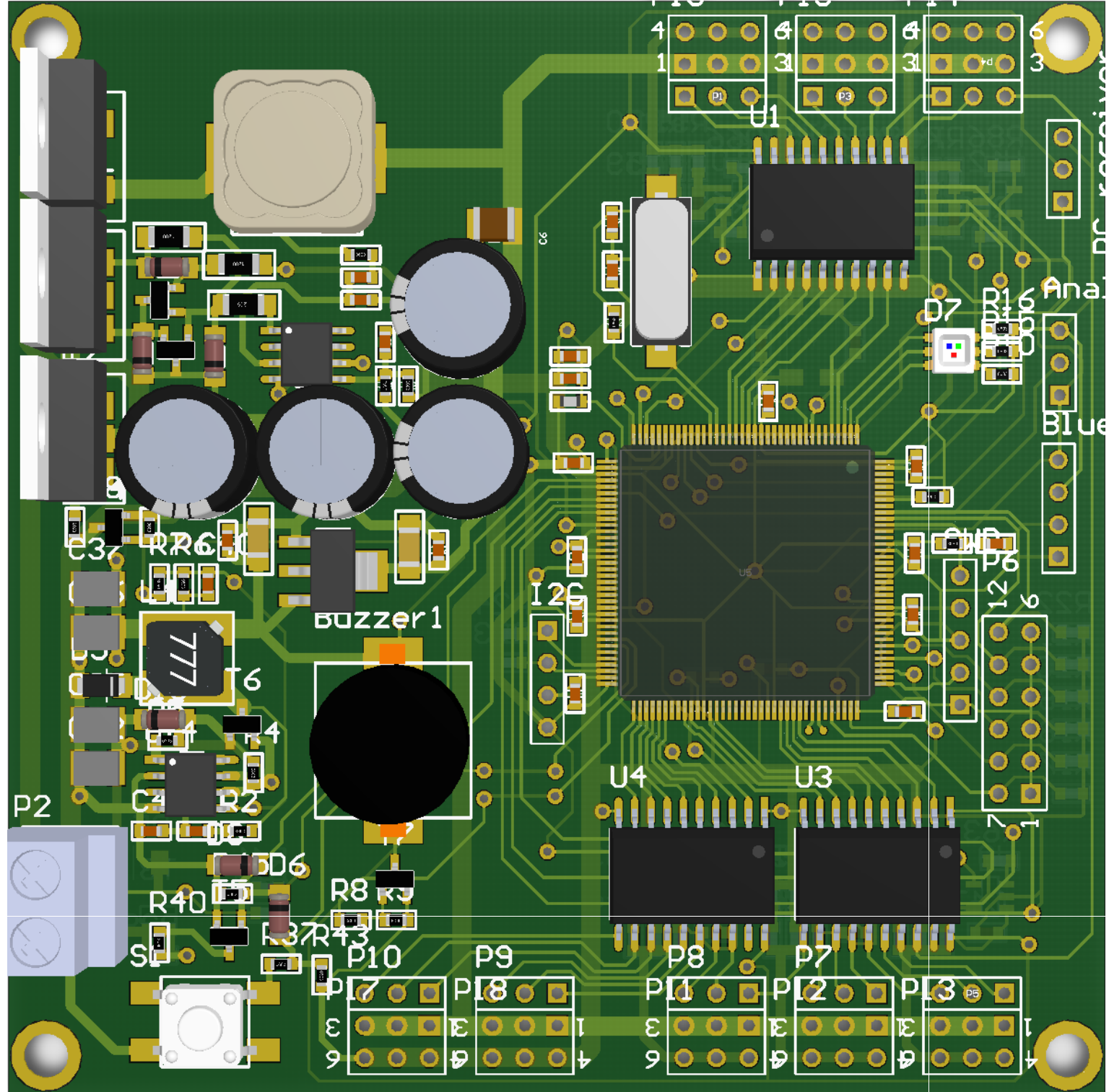
Title		
Size	Number	Revision
A3		
Date:	2013.11.20	Sheet of
File:	E:\pcbdesigns\Hexapod_motherboard	Drawn By:

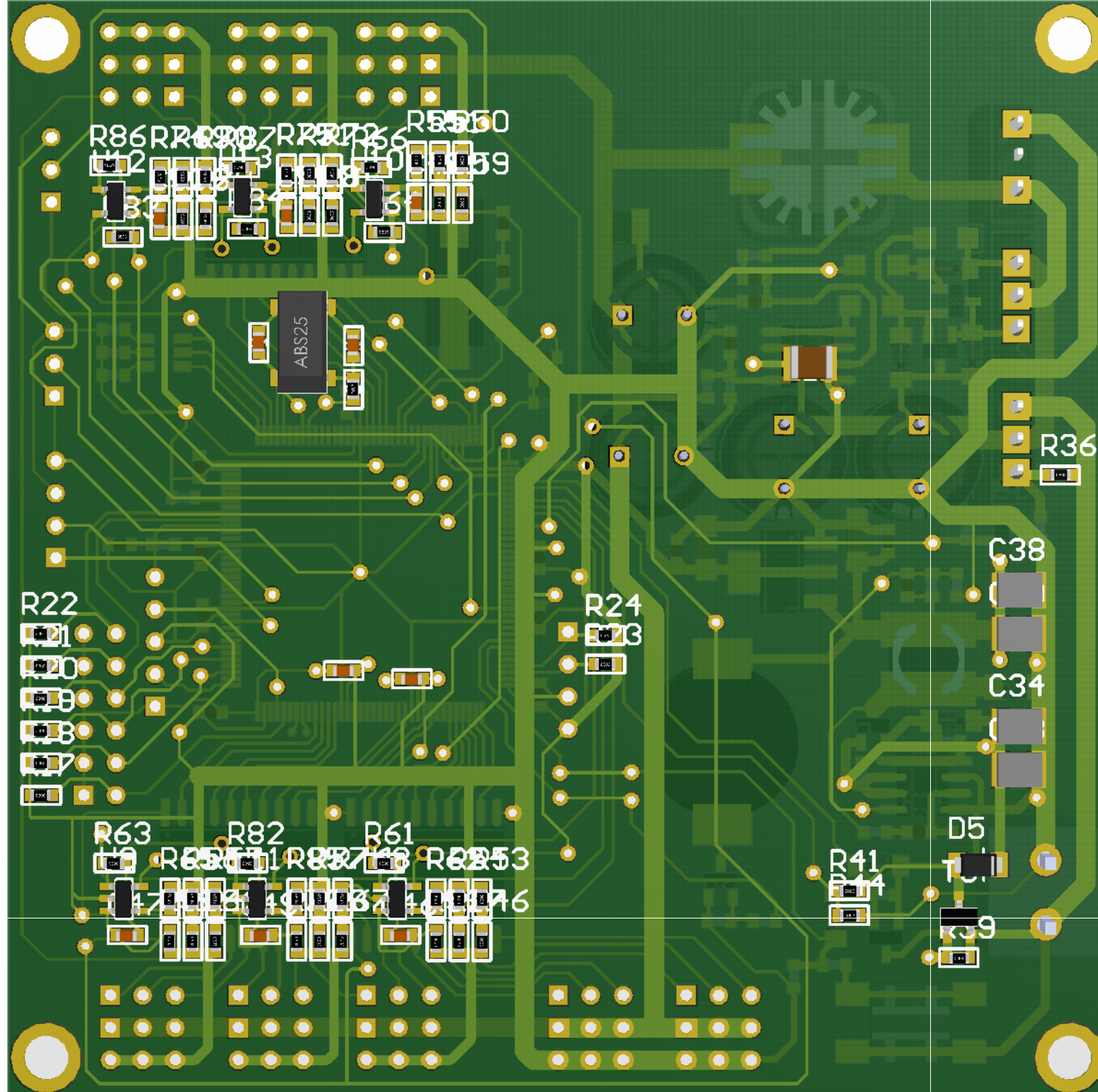


Title		
Size	Number	Revision
A4		
Date:	2013.11.20.	Sheet of
File:	E:\pcbdesigns\Hexapod servo AD.Sch	
	Drawn By:	









Comment	Description	Designator	Footprint	LibRef	Order info	Quantity
Header 3	Header, 3-Pin	Amalog P1-P3, P4, P6, P7, P8, P9, P10, RC receiver	HDR1X3	Header 3		10
Header 4	Header, 4-Pin	Bluetooth1, I2C	HDR1X4	Header 4		2
					http://www.digikey.com/product-detail/en/CD-1206-SMT/102-1150-ND/412409	
Buzzer	buzzer	Buzzer1	SMD Buzzer	Buzzer		1
1000uF	Polarized Capacitor	C1, C2, C4, C5	cap_10x12	CAP_ELECT		4
					http://www.tme.eu/hu/details/c52a2289a-prime/micro-smd-1210-kondenzatori/sams-ung/	
22uF	Capacitor	C3, C6	FP_1210_CAP_N	CAP		2
100pF	Capacitor	C7, C31	FP_0603_CAP_080	Cap	L: 83-02-26	2
4n7	Capacitor	C3, C40	FP_0603_CAP_080	Cap	TOD0	2
470pF	Capacitor	C8, C41	FP_0603_CAP_080	Cap	82-02-34	2
100nF	Capacitor	C10, C12, C42, C46, C47, C48, C49, C50, C51	FP_0603_CAP_080	Cap	TOD0	9
10uF	Capacitor	C11, C13	FP_1206_CAP_085	Cap	82-07-81	2
13p	Capacitor	C14, C15	FP_0603_CAP_080	Cap	TOD0	2
22p	Capacitor	C16, C17	FP_0603_CAP_080	Cap	TOD0	2
10n	Capacitor	C18	FP_0603_CAP_080	Cap		1
1u 6V	Capacitor	C19	FP_0603_CAP_080	Cap		1
1uF	Capacitor	C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30	FP_0603_CAP_080	Cap		11
					http://www.tme.eu/hu/details/c52a2289a-prime/micro-smd-1210-kondenzatori/sams-ung/	
22uF	Capacitor	C32, C33, C34, C35, C36, C37, C38, C39	C1210_N	CAP		8
18V	Zener Diode	D1, D2, D4, D10	SC0-80	ZENER	L: 85-01-29	4
SCHOTTKY	PMEG3020EJ1115 - SCHOTTKY RECT 30V 2A SOD323F	D3	DIODE_TO220	SCHOTTKY		1
SS26L	PMEG3020EJ1115 - SCHOTTKY RECT 30V 2A SOD323F	D5, D9	subma	SCHOTTKY	L: 83-02-21	2
LL4148		D6	SC0-80	DIODE_big		1
					http://www.mouser.com/ProductDetail/OSRAM-Opto/Semiconductors/LRT-BGFTM-ST7-1+V-V9-29+Q&rl=79p+eGA&rl=MZ2MwY6HwGZD%2Bh252b6T1kapNpOowvOydK07hd	
LED_RGB_6_PIN	LED_RGB_6_PIN	D7	LED_PLCC-6	LED_RGB_6_PIN		1
ZENER 3V3	Zener Diode	D8	sc0-80	ZENER		1
100uH		L1	SRR1206_T	L	REL: 77-01-48 l: 93-03-38	1
fbad	FBEAD	L2	FP_0603_IND	Inductor		1
470uH		L4	INDUCTOR_3.0x6.0mm	L	REL: 77-01-48 l: 93-03-38	1
Header 2	Header, 2-Pin	P2	Sokapocis 2P 5mm	Header 2		1
Header 6X2A	Header, 6-Pin, 2-Row	P6	HDR2X6_CEN	Header 6X2A		1
Header 3X2A	Header, 3-Pin, 2-Row	P11, P12, P13, P14, P15, P16, P17, P18	HDR2X3_CEN	Header 3X2A		8
NPN		Q1	TR_SOT23	NPN		1
PNP		Q2	TR_SOT23	PNP		1
1k	Resistor	R1	FP_1206_RES	Res3	TOD0	1
150k	Resistor	R2, R3	FP_0603_RES	Res3	TOD0	2
1k	Resistor	R4, R8, R10, R15, R16, R38, R40, R52, R55, R58, R62, R65, R66, R73, R74, R75, R85, R86, R87	FP_0603_RES	Res3	TOD0	19
100R	Resistor	R5	FP_0603_RES	Res3	TOD0	1
3k6	Resistor	R6, R13	FP_0603_RES	Res3	80-14-47	2
1k2	Resistor	R7, R14	FP_0603_RES	Res3	80-13-54	2
100k	Resistor	R9, R36, R39, R42, R43, R45	FP_0603_RES	Res3		6
220R	Resistor	R11	FP_1206_RES	Res3	TOD0	1
100R	Resistor	R12	FP_1206_RES	Res3	TOD0	1
10k	Resistor	R17, R18, R19, R20, R21, R22, R23, R24, R34, R35, R37, R41, R44	FP_0603_RES	Res3	80-13-54, TOD0	13
390R	Resistor	R31, R32	FP_0603_RES	Res3	TOD0	2
0.1R	Resistor	R46, R47, R48, R49, R50, R51, R53, R54, R56, R57, R59, R60, R67, R68, R69, R70, R71, R72, R76, R77, R78, R79, R80, R81	FP_0603_RES	Res3		24
4k	Resistor	R81, R83, R84, R85, R84	FP_0603_RES	Res3		6
					http://www.tme.eu/hu/details/tactm-67n-f/act1p6b-mk/sokapocis/ning/	
Button	Switch	S1	BUTTON_6X6_SMD	SW-PB		1
Header 5	Header, 5-Pin	SWD	HDR1X5	Header 5	ROUSEP 512	1
IRF4905		T1, T2	FET_TO220	PMOS	NDT2955	2
IRLML2244		T3, T6	FET_SOT23	PMOS		2
NMOS		T4, T5, T7	FET_SOT23	NMOS		3
74HC541	Octal transist 3-state line driver	U1, U3, U4	DIGITAL_SOC20W	74HC541		3
MC34063A		U2, U14	FP_S08_MS012AA	MC34063A	ROUSEP 595-MC34063ADR	2
STM32F103Z		U5	LGFP144	STM32F103Zxx		1
					http://hu.mouser.com/ProductDetail/NXP/NX11117/C32115/7q%2Bh2a2pFadu8P2S2bQp69h9w2mVdWQMv525b6F0NTWqGN252bW0U7hd	
LD1117xx	LD1117xx 3.3V lin reg	U6	SUPPLY_SOT23	LD1117xx		1
					http://www.tme.eu/hu/details/xtal-ab825-ams/mint-a-feden	
MCP6001R	OP-AMP, CMR, U11, U12, U13	U11, U13	ANALOG_SOT23-5	MCP6001R		6
Quartz 32.768 KHz	XTAL_32768Hz ABS25 SMD	Y1	XTAL_ABS25	XTAL_32768Hz ABS25 SMD		1
BMHz Quartz HC49	Standard HC49 quartz	Y2	FP_CRYSTAL_HC49	XTAL_HC49	ugetnaz mint a feden	1