

1

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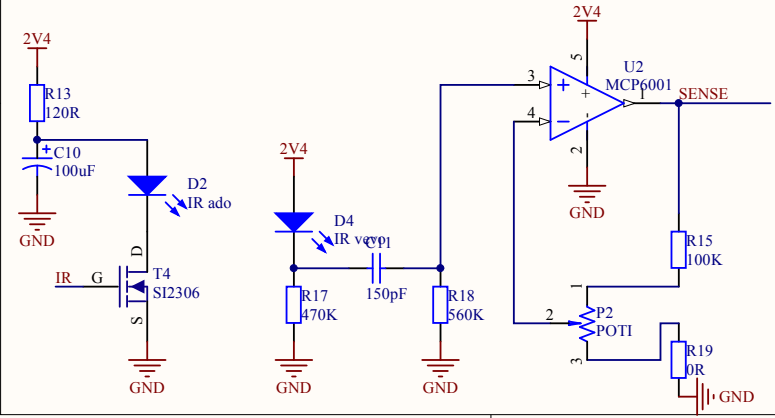
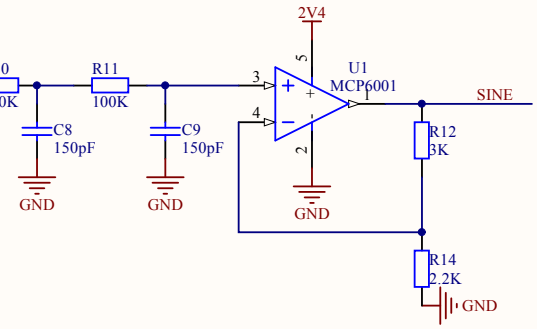
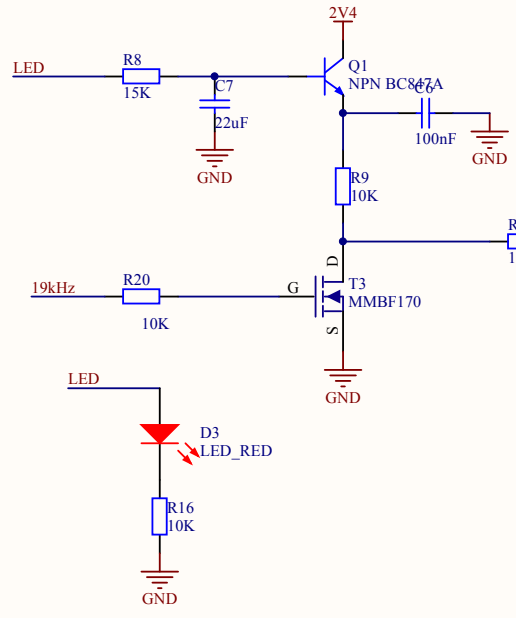
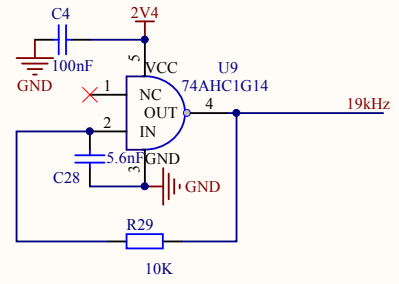
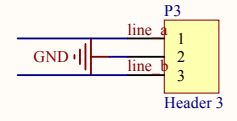
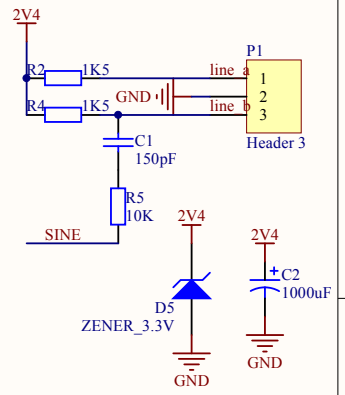
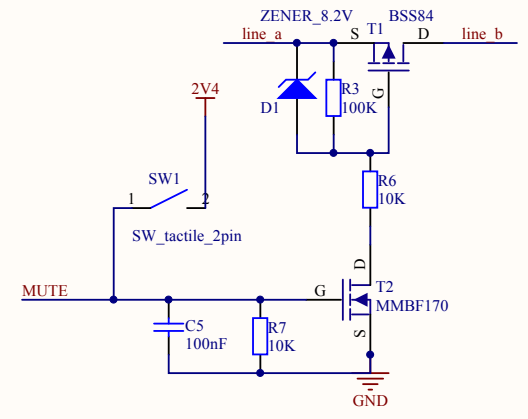
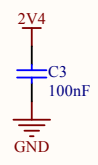
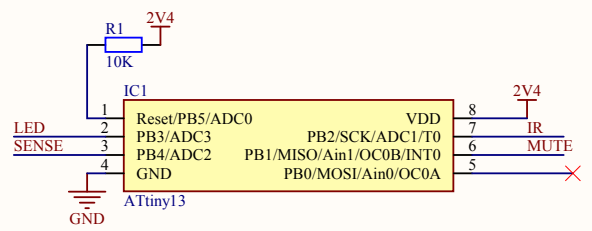
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Title		
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Date:	2015.08.11.	Sheet of
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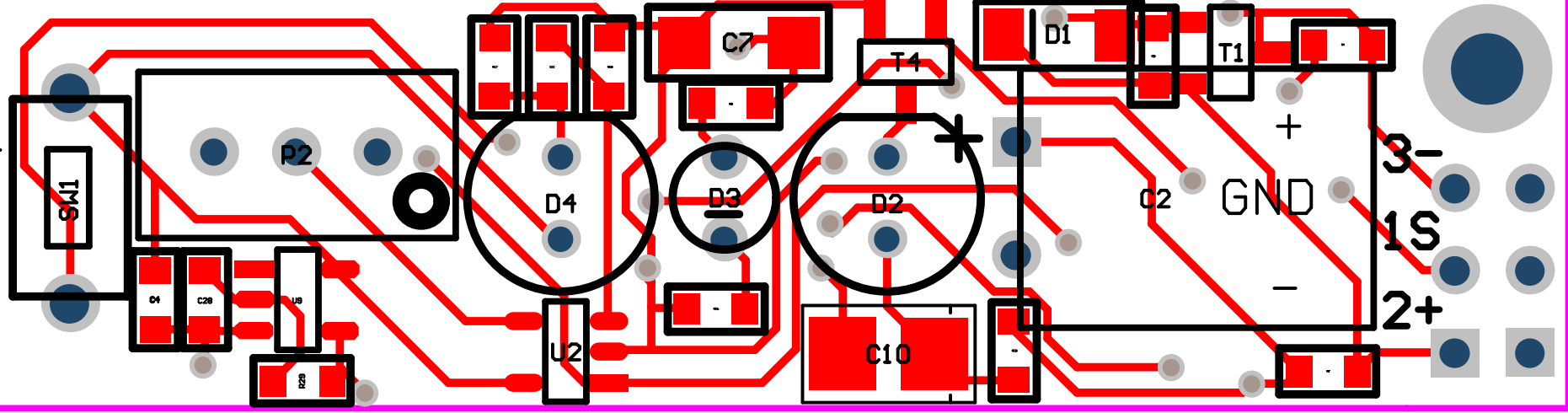
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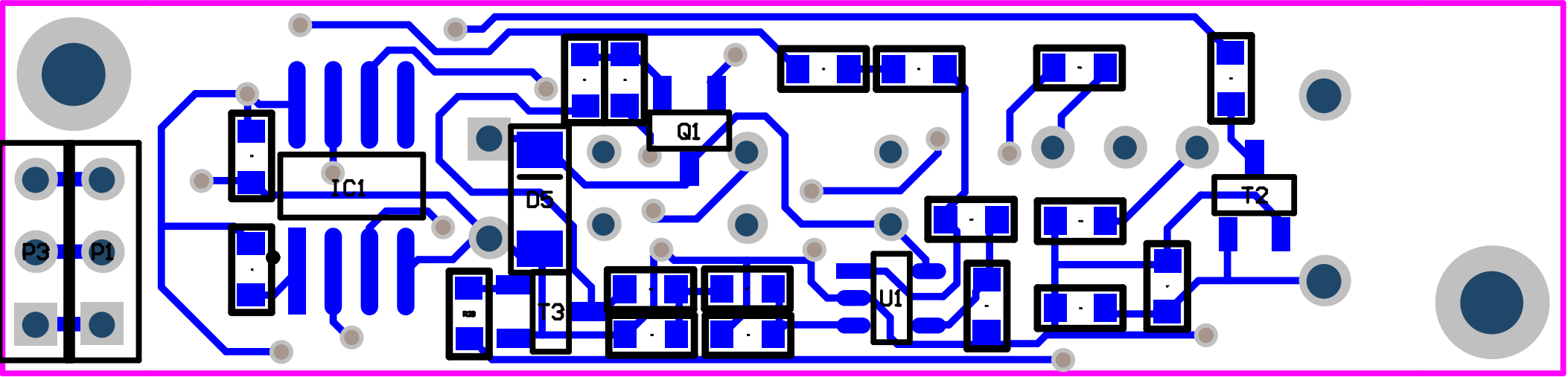
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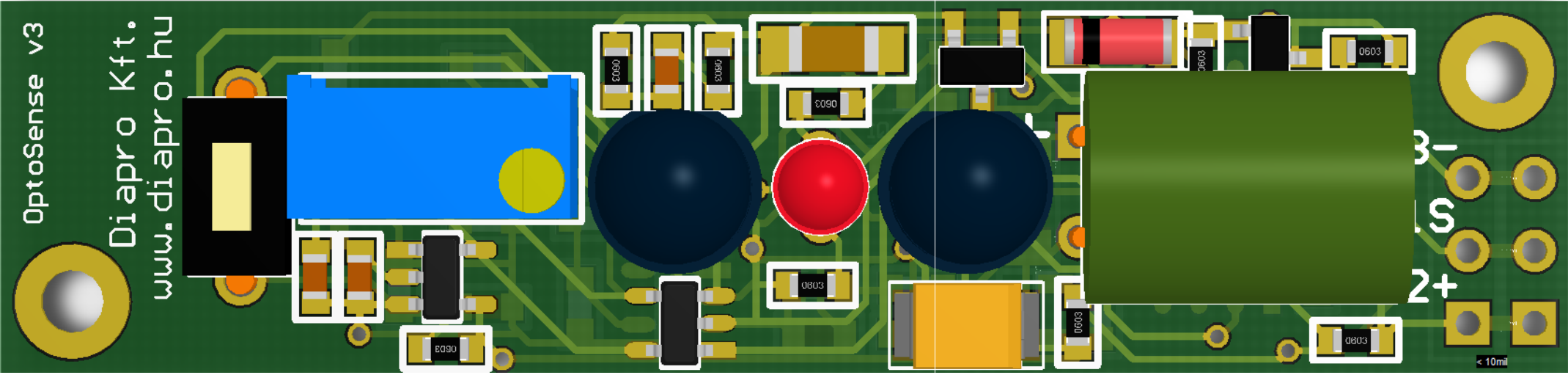
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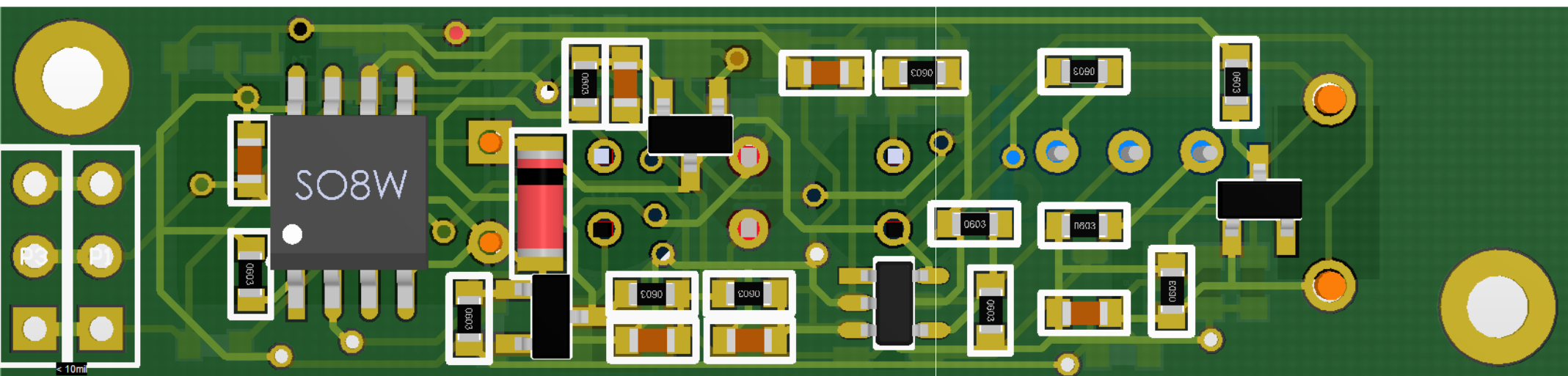
OptoSense v3

Diapro Kft.
www.diapro.hu



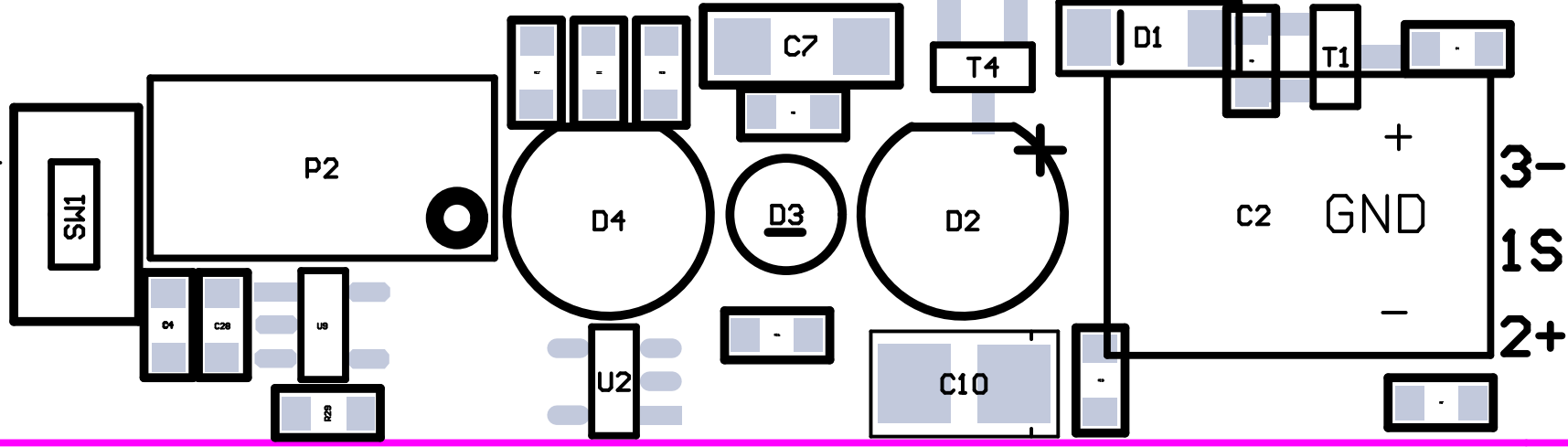


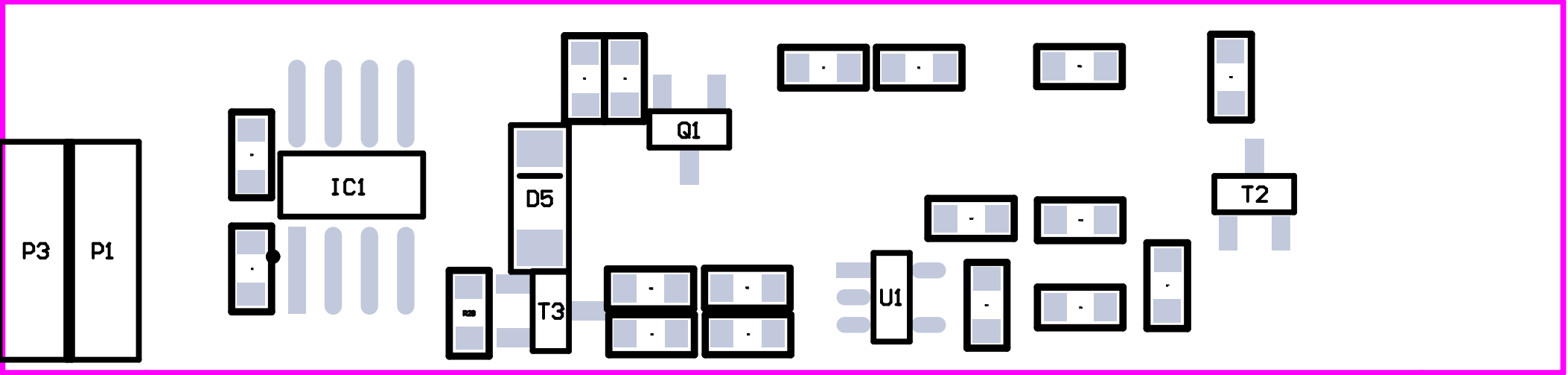




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Comment	Description	Designator	Footprint	LibRef	Order info	Quantity	T qés
150pF	Capacitor	C1, C8, C9, C11	FP_0603_CAP_080	CAP	82-08-61	4	
1000uF	Polarized Capacitor	C2	CAP_8x11_fekvo	CAP_ELECT	12-19-15	1	
100nF	Capacitor	C3, C4, C5, C6	FP_0603_CAP_080	CAP	82-04-85	4	
22uF	Capacitor	C7	FP_1206_CAP_125	Cap	82-08-07	1	10%
100uF	Polarized Capacitor	C10	FP_3528	CAP_ELECT	92-01-02	1	
5.6nF	Capacitor	C28	FP_0603_CAP_080	Cap	82-07-48	1	10%
ZENER_8.2V	Zener Diode	D1	SOD-80	ZENER	85-01-21	1	
IR ado	Typical LED	D2	LED_IR_5mm	LED_B	38-02-21	1	
LED_RED	Typical LED	D3	led_3mm_standing R	LED_R	34-06-65	1	
IR vevo	Typical LED	D4	LED_IR_5mm	LED_B	38-01-91	1	
ZENER_3.3V	Zener Diode	D5	SOD-80	ZENER	85-01-11	1	
ATtiny13		IC1	WSON_n_SOIC8	ATtiny13	http://hu.famell.com/atmel/attiny13a-ssh/mcu-8bit-attiny20mhz-soic-8/dp/1715519	1	
POTI		P2	RES_trimmer_help ot_mini_90	POTI	05-05-89	1	
NPN BC847A		Q1	TR_SOT23	NPN	86-03-86	1	
10K	Resistor	R1, R5, R6, R7, R9, R16, R20, R29	FP_0603_RES	RES, Res3	81-10-38	8	5%
1K5	Resistor	R2, R4	FP_0603_RES	RES	81-10-28	2	
100K	Resistor	R3, R10, R11, R15	FP_0603_RES	RES	81-10-50	4	
15K	Resistor	R8	FP_0603_RES	RES	80-12-06	1	
3K	Resistor	R12	FP_0603_RES	RES	81-15-24	1	
120R	Resistor	R13	FP_0603_RES	RES	81-12-21	1	
2.2K	Resistor	R14	FP_0603_RES	RES	81-10-30	1	
470K	Resistor	R17	FP_0603_RES	RES	81-10-58	1	
560K	Resistor	R18	FP_0603_RES	RES	81-10-59	1	
0R	Resistor	R19	FP_0603_RES	RES	81-18-05	1	
SW_tactile_2pin		SW1	SW_TACT_2PIN	SW_tactile_2pin	45-07-27	1	
BSS84		T1	FET_SOT23	PMOS	86-03-04	1	
MMBF170		T2, T3	FET_SOT23	NMOS	86-01-96	2	
SI2306		T4	FET_SOT23	NMOS	86-01-57	1	
MCP6001		U1, U2	ANALOG_SOT23-5	MCP6001	http://hu.famell.com/microchip/mcp6001t-i-ot/op-amp-cmos-1mhz-1-8v-sm-d-6001/dp/4974992	2	
74AHC1G14	SCHMITT-TRIGGER	U9	GATE_SOT23-5	74AHC1G14	87-03-90	1	