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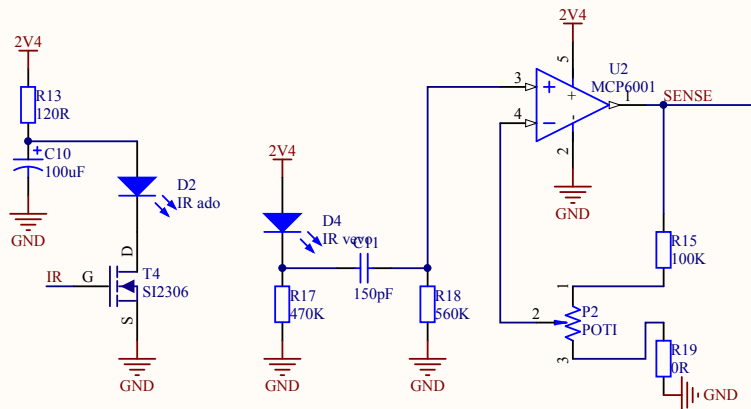
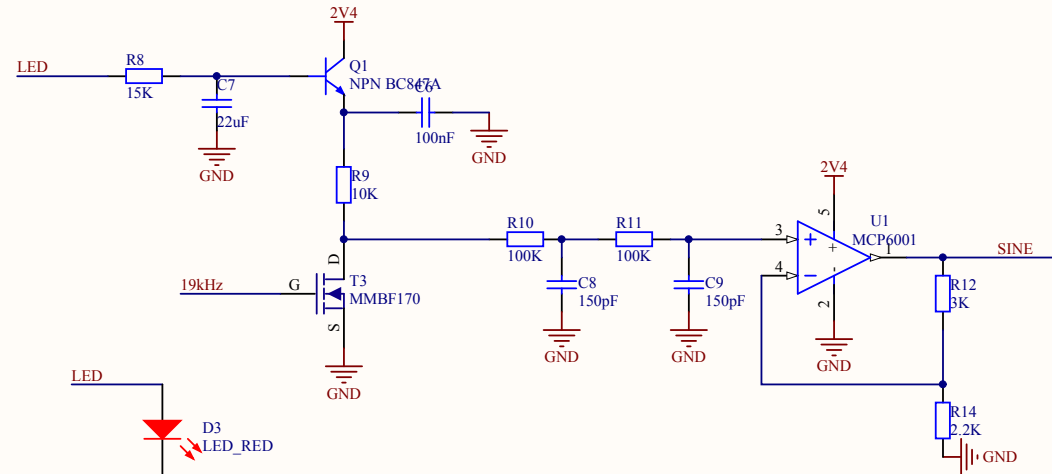
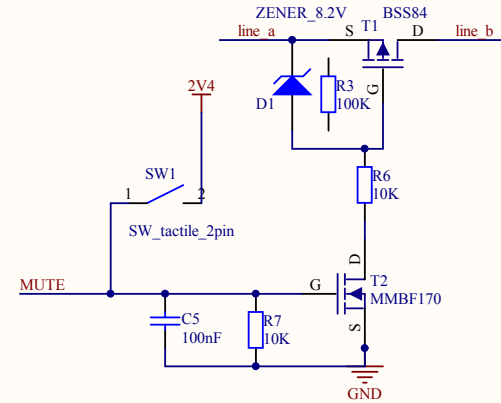
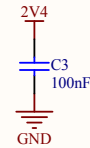
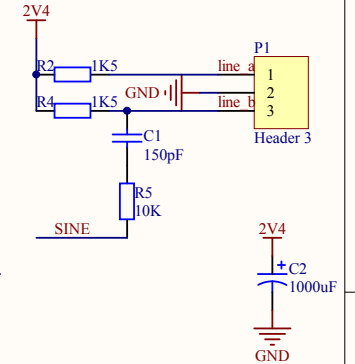
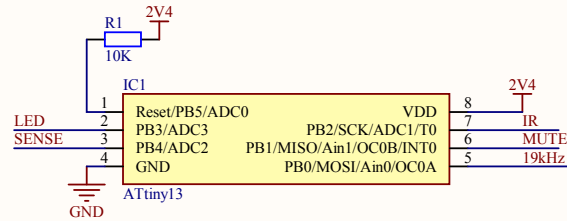
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Title		
Size	Number	Revision
A4		
Date:	2015.02.26.	Sheet of
File:	E:\pcbdesigns\Optosense.SchDoc	Drawn By:

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Diapro Kft.

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optoSense v1.0

R1

R2

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C7

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D1

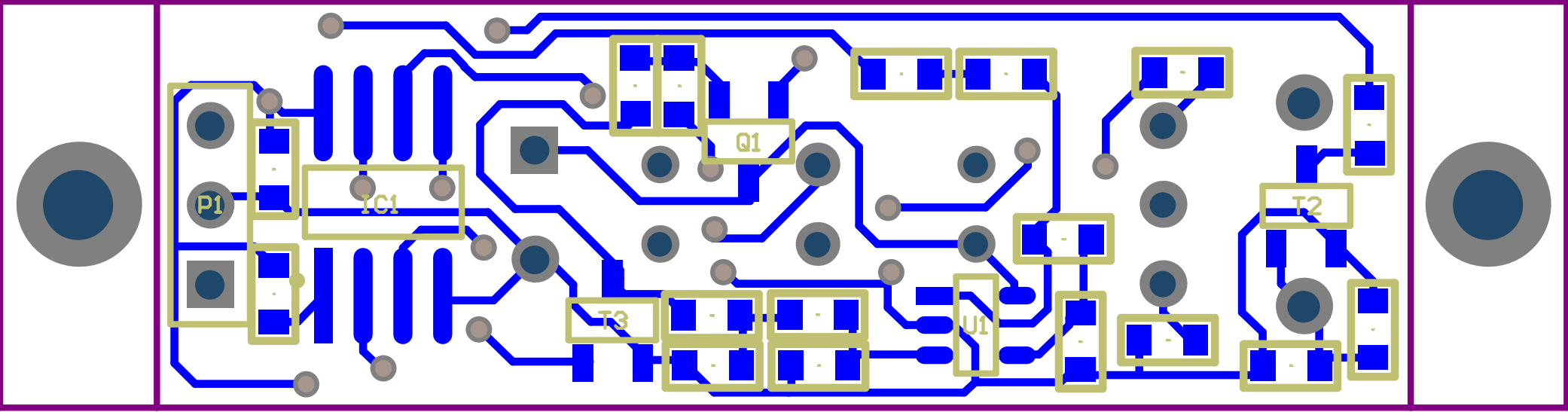
T1

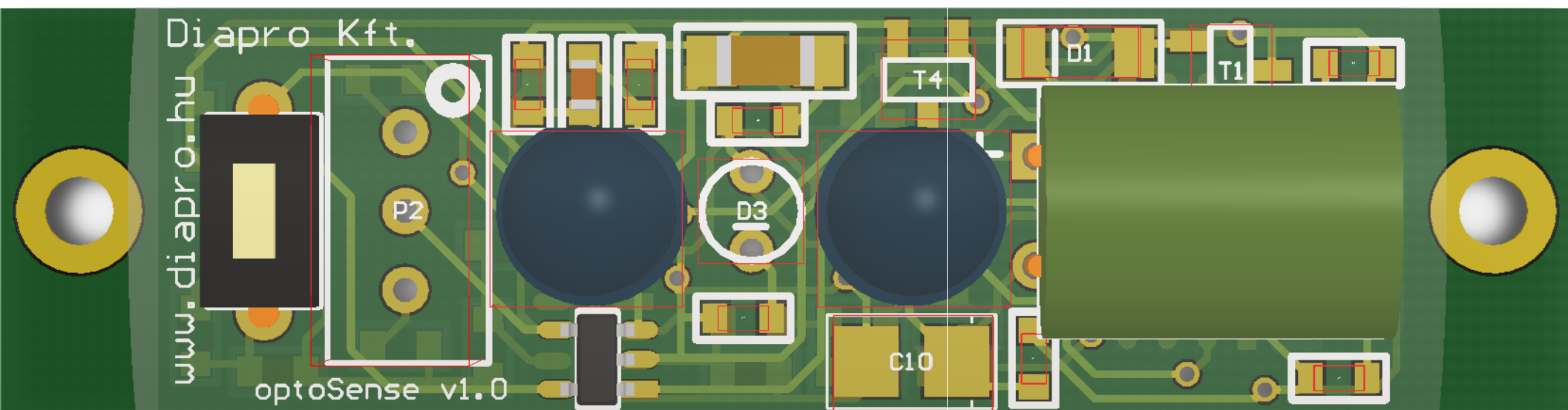
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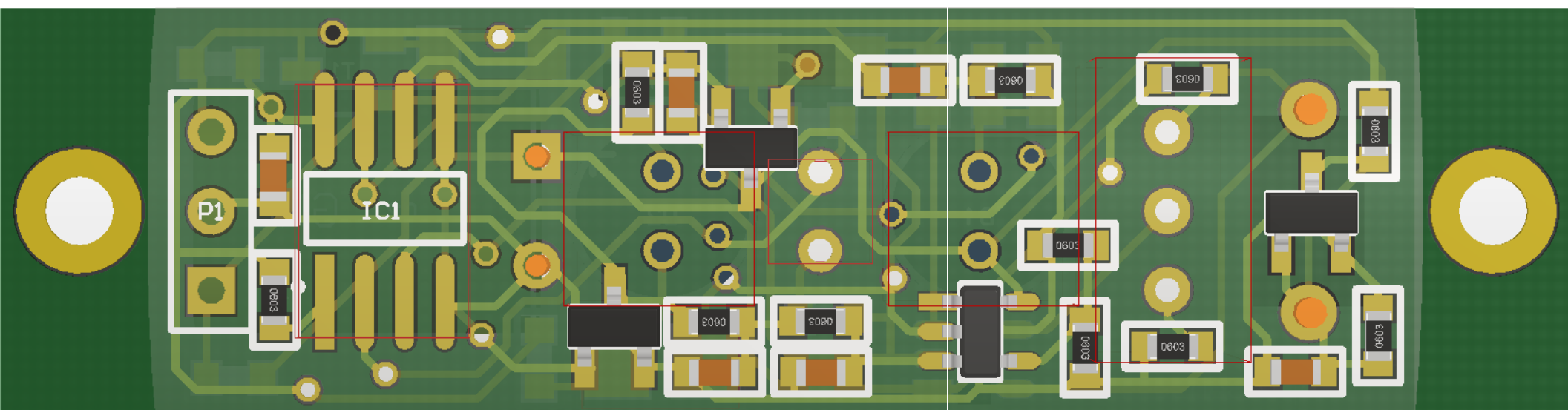
U2

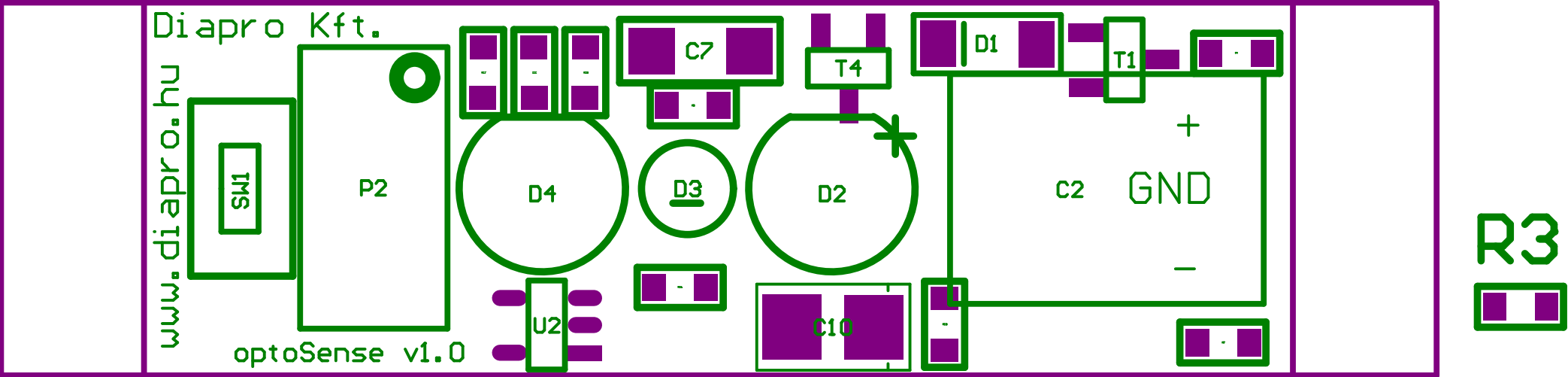
R3

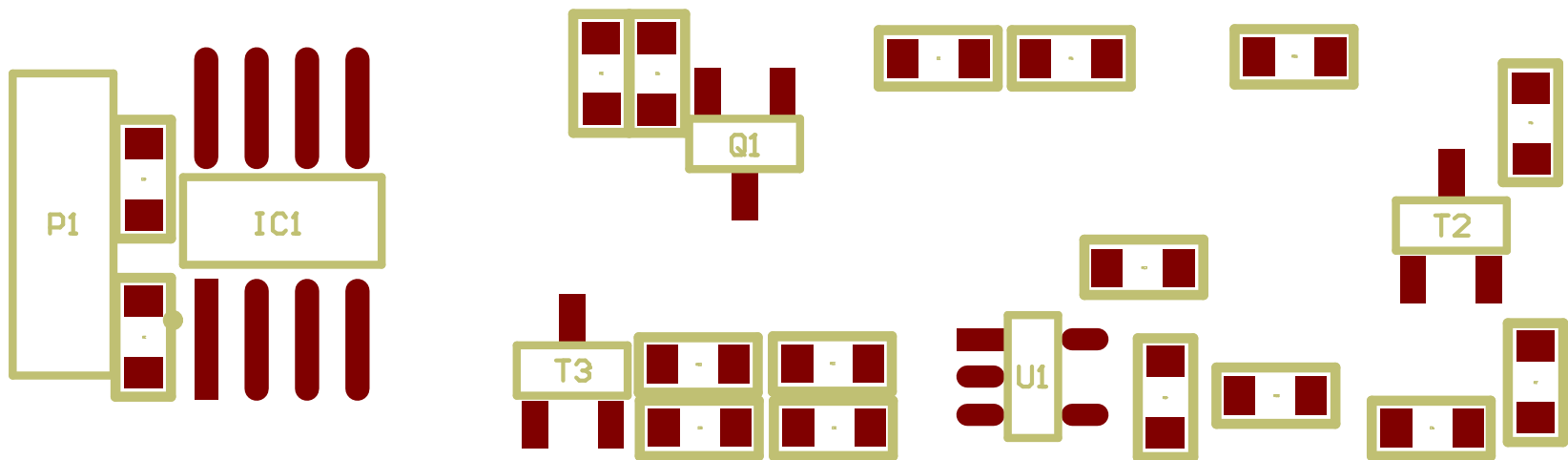












Comment	Description	Designator	Footprint	LibRef	Order info	Quantity	T qés
150pF	Capacitor	C1, C8, C9, C11	FP_0603_CAP_080	CAP	82-08-61	4	
1000uF	Polarized Capacitor	C2	CAP_8x11_fekvo	CAP_ELECT	12-19-15	1	
100nF	Capacitor	C3, C5, C6	FP_0603_CAP_080	CAP	82-04-85	3	
22uF	Capacitor	C7	FP_1206_CAP_125	Cap	82-08-07	1	10%
100uF	Polarized Capacitor	C10	FP_3528	CAP_ELECT	92-01-02	1	
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	
ATtiny13		IC1	WSON_n_SOIC8	ATtiny13	http://hu.farnell.com/atmel/attiny13a-ssh/mcu-8bit-attiny-20mhz-soic-8/dp/1715519	1	
POTI		P2	RES_trimmer_helpot_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	FP_0603_RES	RES	81-10-38	6	
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.farnell.com	2	