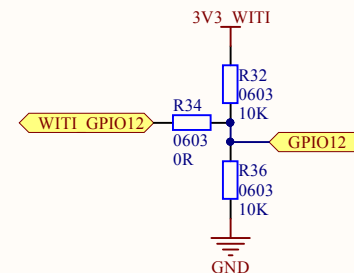
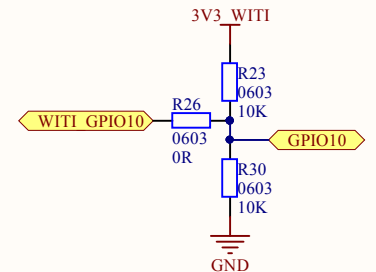
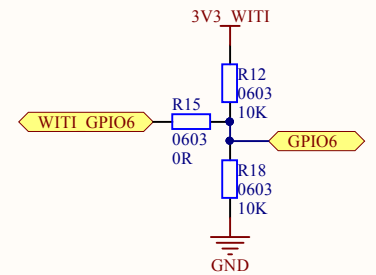
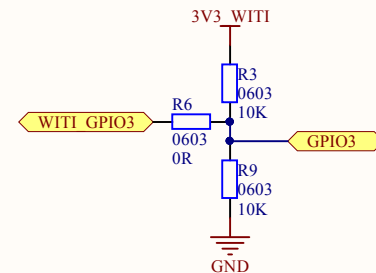
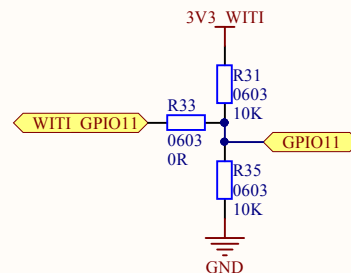
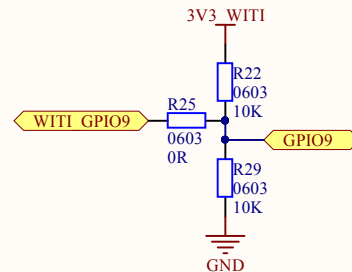
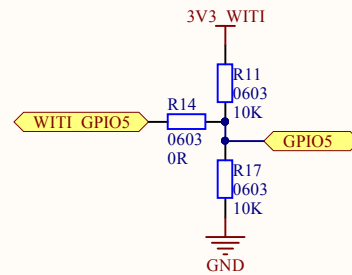
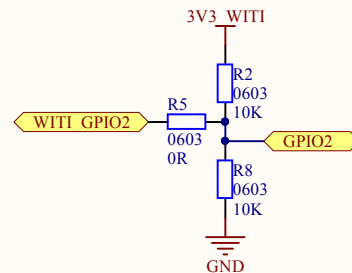
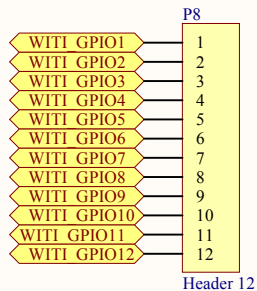
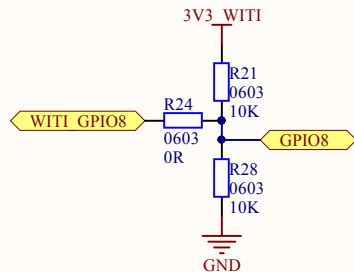
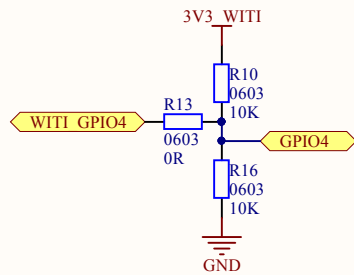
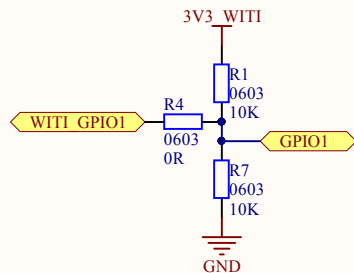
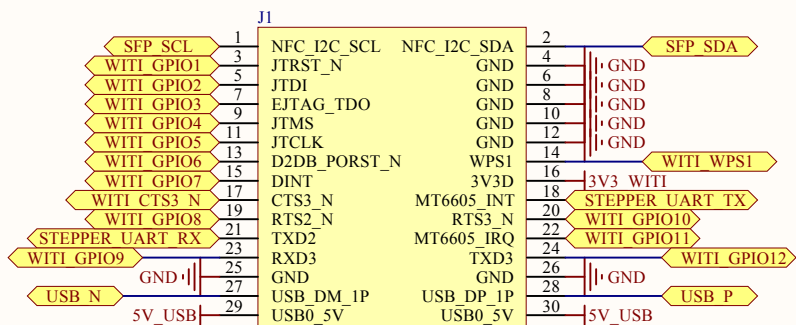
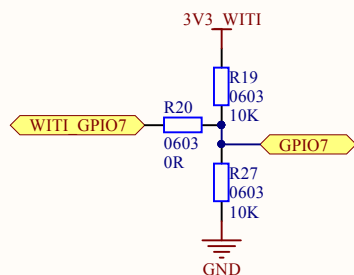
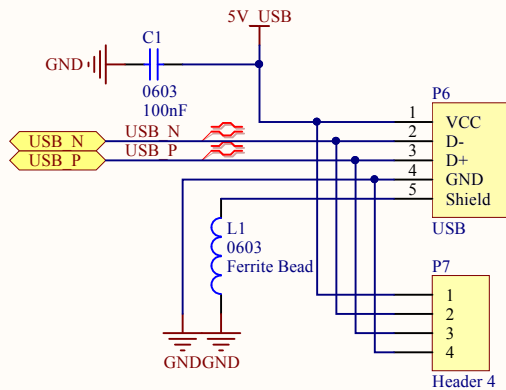
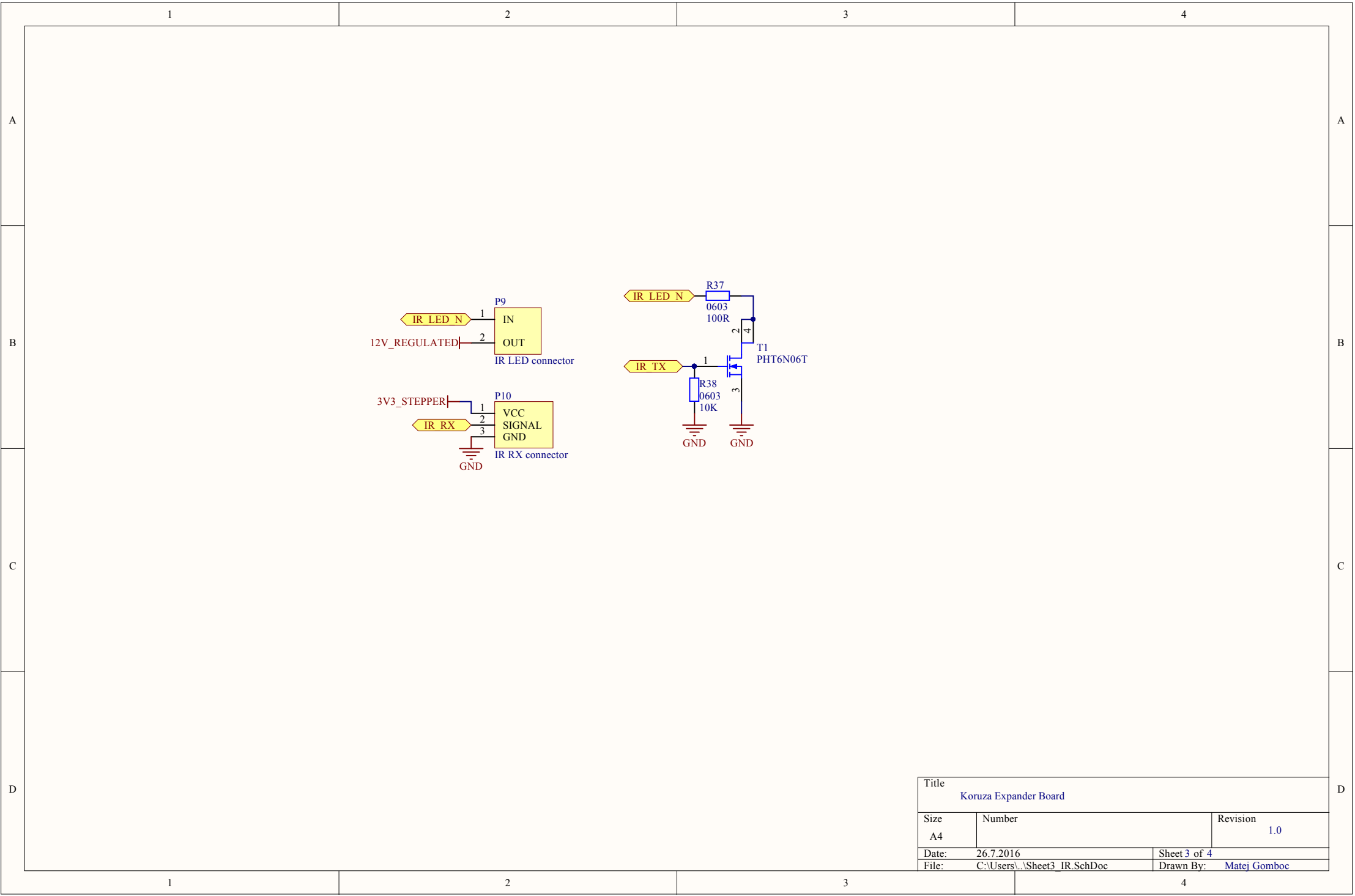
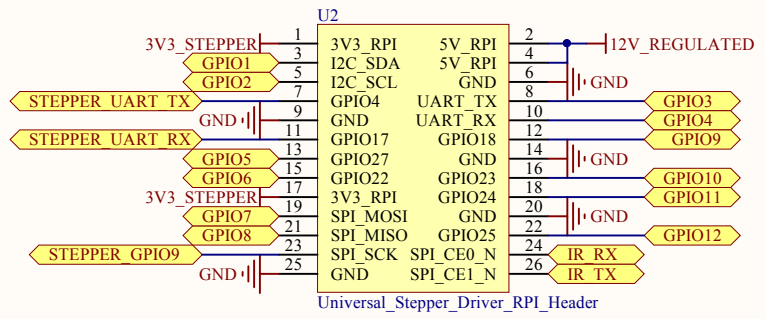
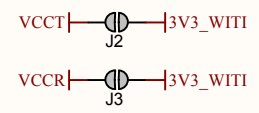
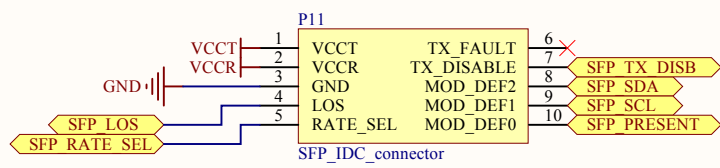
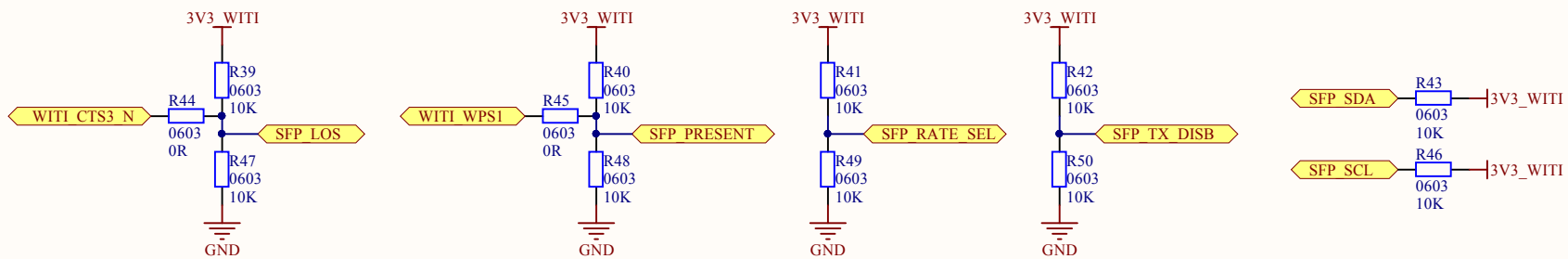


Title		
Koruzza Expander Board		
Size	Number	Revision
A4		1.0
Date:	26.7.2016	Sheet 1 of 4
File:	C:\Users\...Sheet1_PWR_connectors.SchDoc	Drawn By: Matej Gomboc

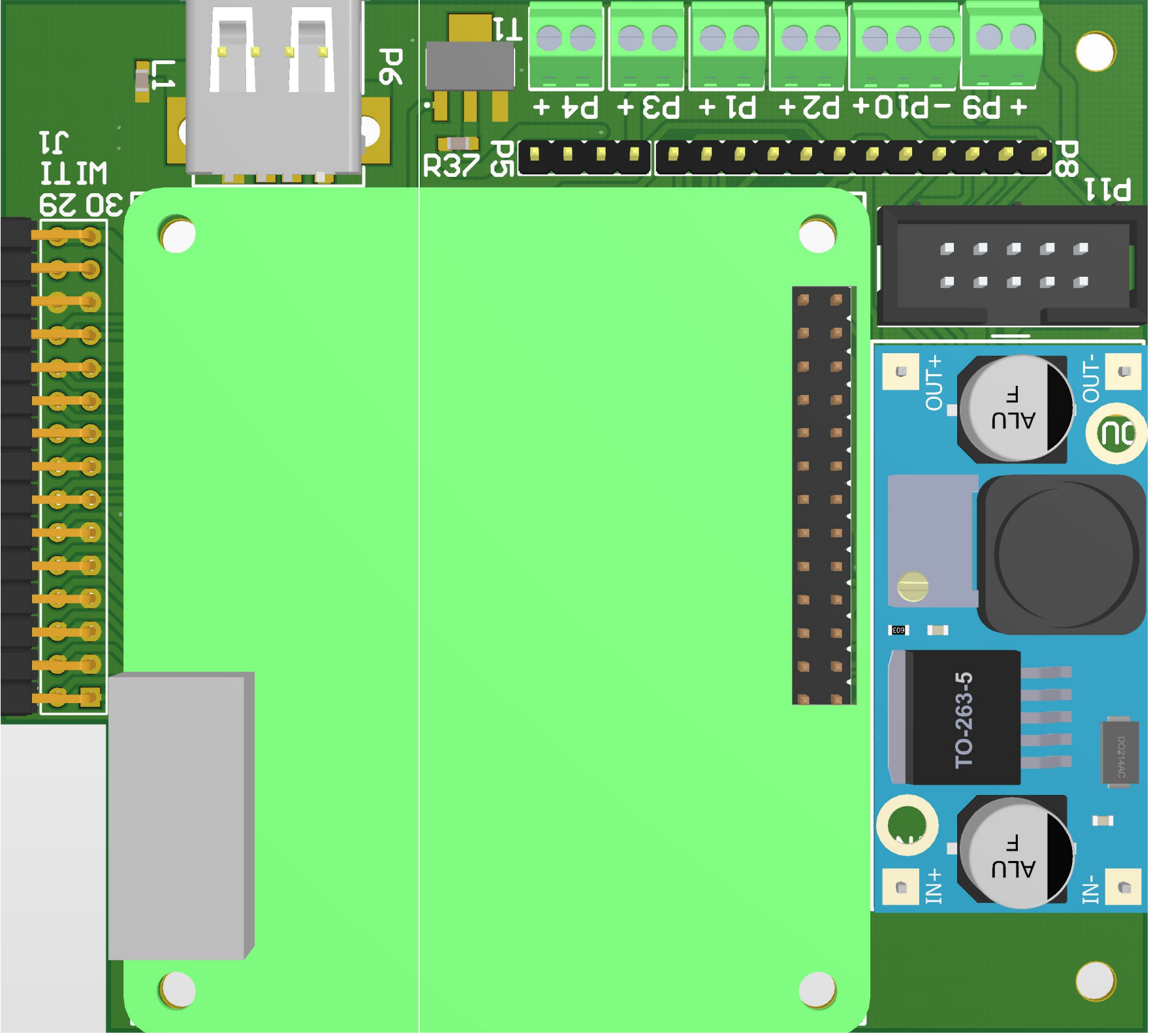


Title Koruza Expander Board		
Size A4	Number	Revision 1.0
Date: 26.7.2016	Sheet 2 of 4	
File: C:\Users\Sheet2 WITI Board USB.Sch Drawn By: Matej Gomboc		





Title		
Korzuza Expander Board		
Size	Number	Revision
A4		1.0
Date:	26.7.2016	Sheet 4 of 4
File:	C:\Users\... \Sheet4_SFP_StepperDriver.SchDocn By: Matej Gomboc	



Koruzo Expander Board
Institute IRNAS Race

R15 R35 R14 R13 R6 R5 R4 R46
R18 R33 R17 R16 R9 R8 R7 R43
R12 R31 R11 R10 R3 R2 R1

R26 R45 R25 R34 R24 R44 R20
R30 R48 R29 R36 R28 R47 R27
R23 R40 R22 R32 R21 R39 R19

GND D+ D- 5V
13

5V
GND
12V
1

3V3
RX
GND
IR RX
IR TX
+

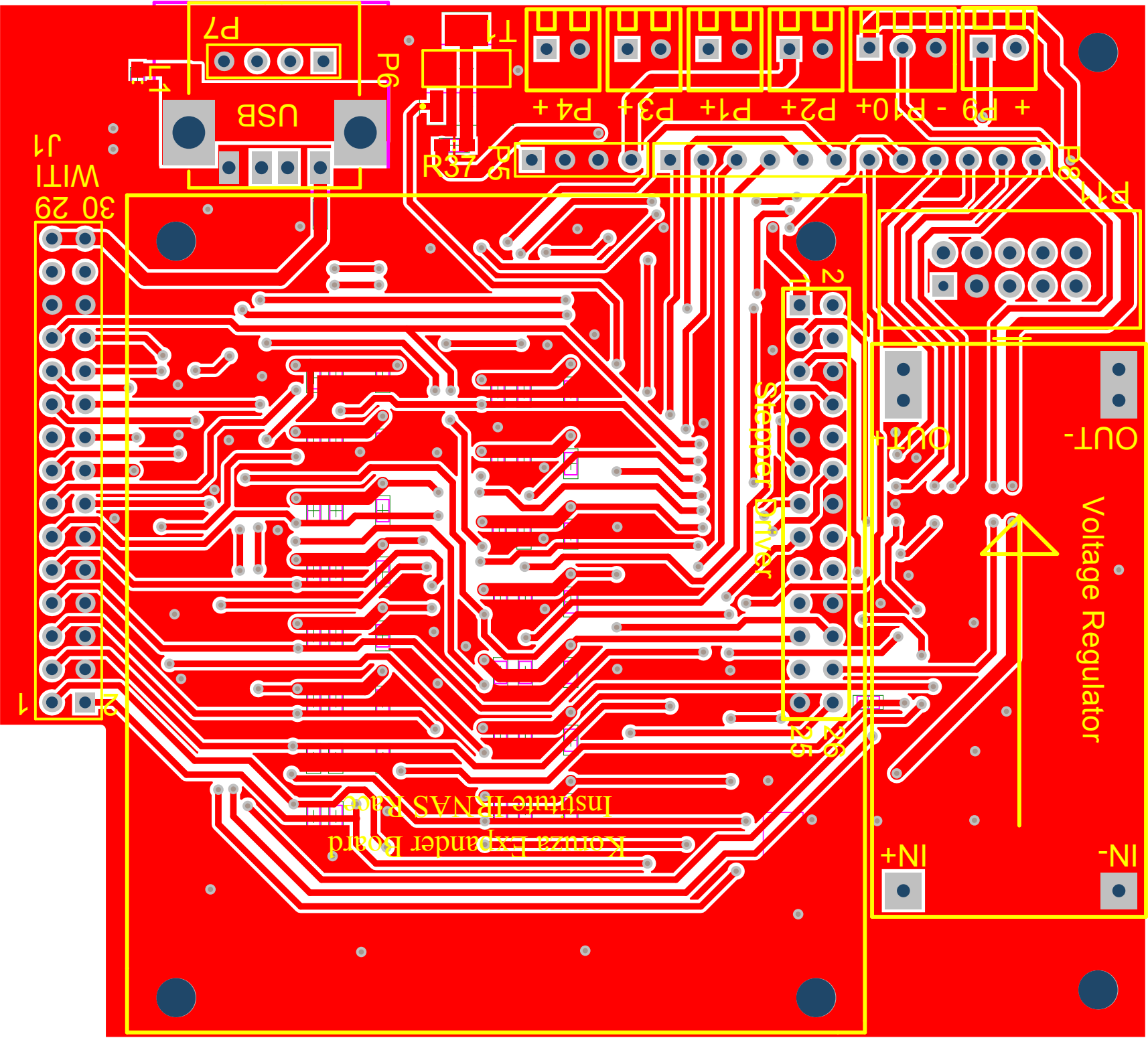
MITI
GP10
12

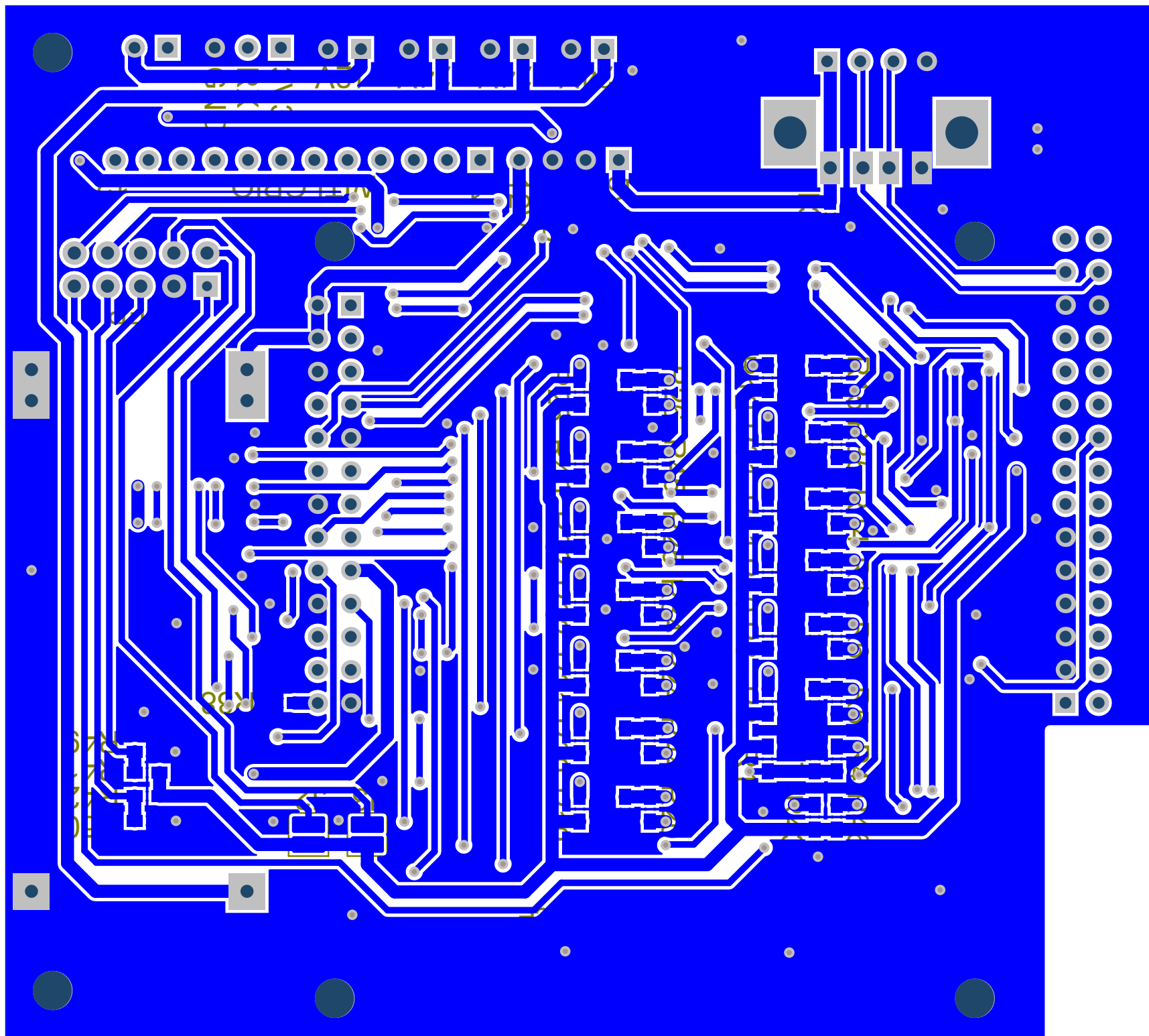
SFP

R38

J3
J2

R49
R41
R42
R50





Description	Comment	Designator	Quantity	Value
1X4 Pwr Header	Pwr Header	P5	1	
Ceramic Capacitor	0603	C1	1	100nF
Ferrite Bead	0603	L1	1	Ferrite Bead
Header, 4-Pin	Header 4	P7	1	
Header, 12-Pin	Header 12	P8	1	
IR LED connector	IR LED connector	P9	1	
IR RX connector	IR RX connector	P10	1	
LM2596 module	LM2596 module	U1	1	12V
N MOSFET	PHT6N06T	T1	1	
Resistor	0603	R1, R2, R3, R7, R8, R9, R10, R11, R12, R16, R17, R18, R19, R21, R22, R23, R27, R28, R29, R30, R31, R32, R35, R36, R38, R39, R40, R41, R42, R43, R46, R47, R48, R49, R50	35	10K
Resistor	0603	R37	1	100R
Resistor	0603	R4, R5, R6, R13, R14, R15, R20, R24, R25, R26, R33, R34, R44, R45	14	0R
SFP IDC10 connector	SFP_IDC_connector	P11	1	
terminal block, 2.45mm	term_block_2_45mm	P1, P2, P3, P4	4	
Universal Stepper Driver Raspberry PI Header	Universal_Stepper_Driver_RPI_Head er	U2	1	
USB A standard receptacle	USB	P6	1	
WITI board header connector	WITI_board_header_connector	J1	1	