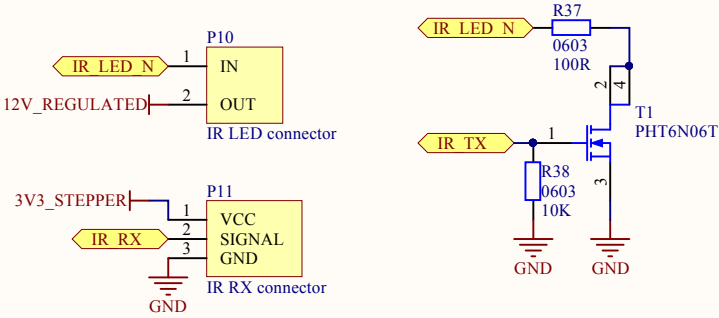
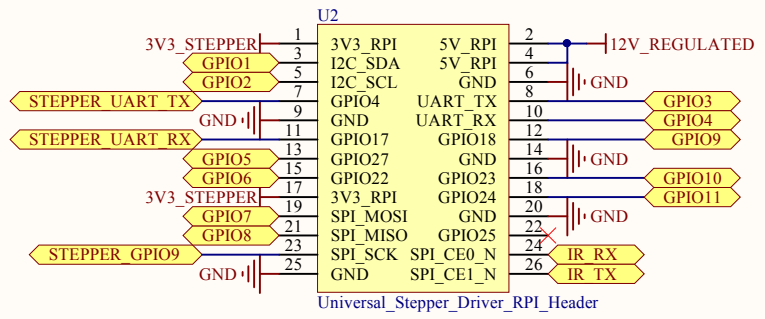
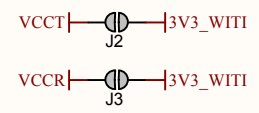
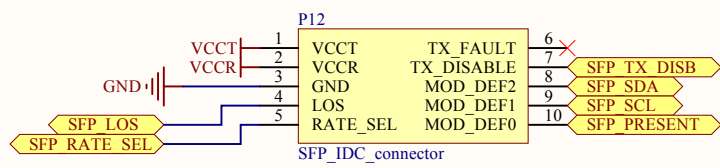
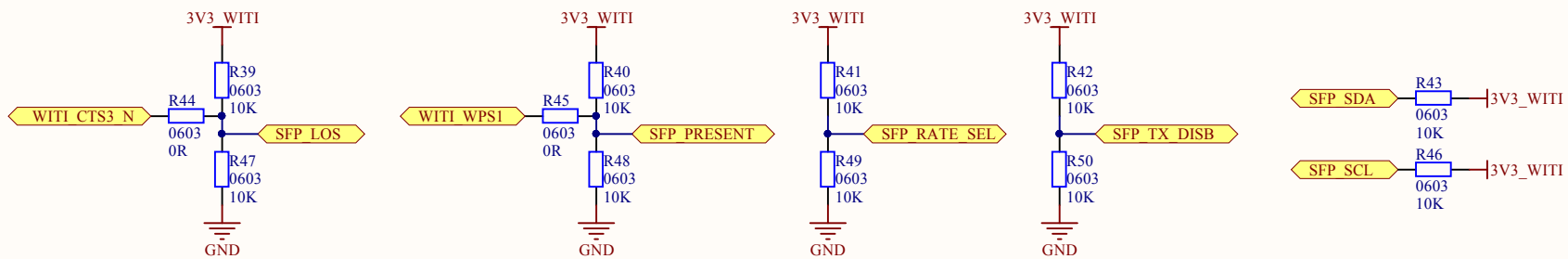


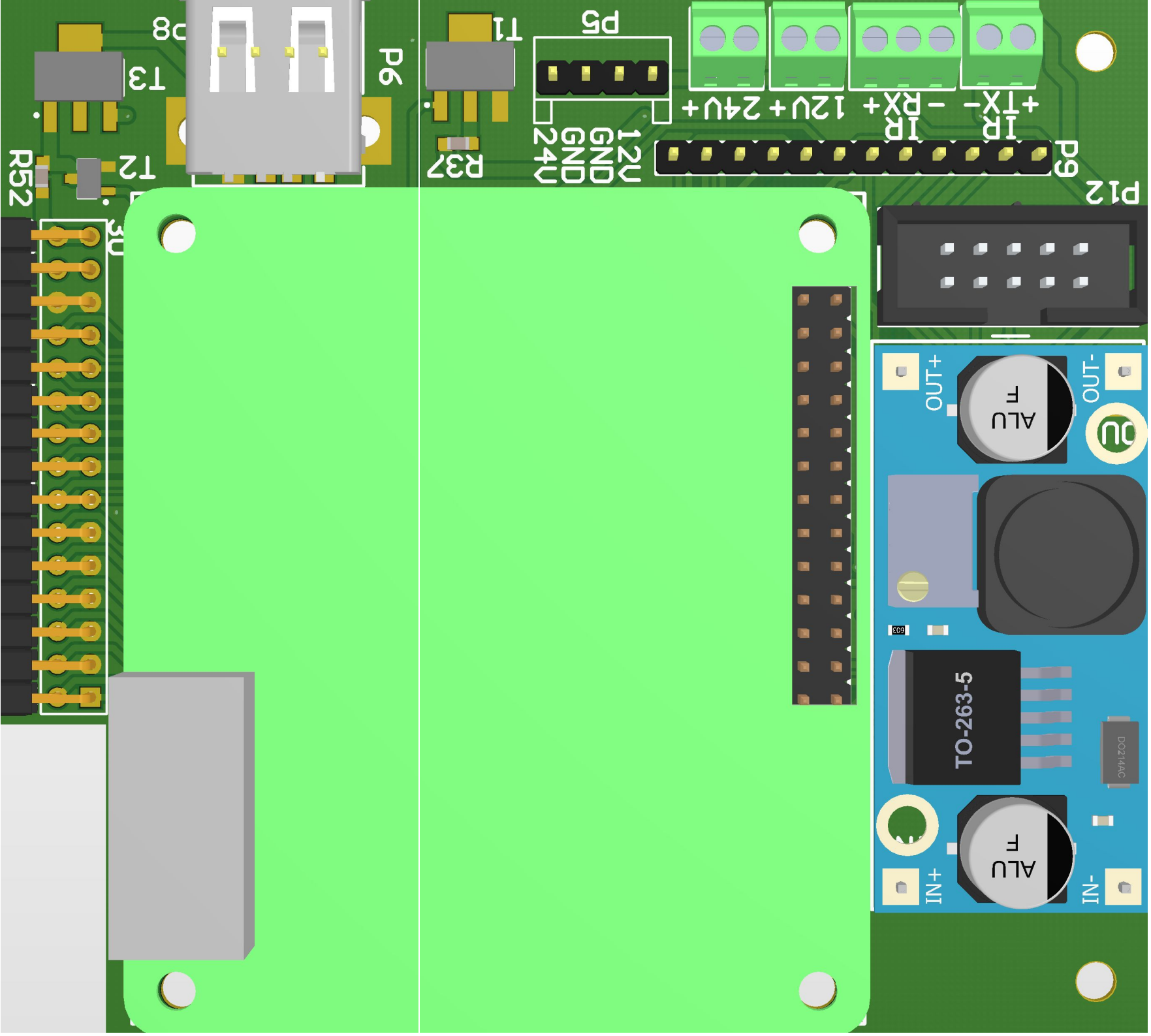
Title		
Koruzo Expander Board		
Size	Number	Revision
A4		1.0
Date:	26.8.2016	Sheet 1 of 4
File:	C:\Users\...\Sheet1_PWR_connectors.Sch Drawn By: Matej Gomboc	



Title		
Koruzo Expander Board		
Size	Number	Revision
A4		1.0
Date:	26.8.2016	Sheet 3 of 4
File:	C:\Users\...\Sheet3_IR.SchDoc	Drawn By: Matej Gomboc



Title		
Korzuza Expander Board		
Size	Number	Revision
A4		1.0
Date:	26.8.2016	Sheet 4 of 4
File:	C:\Users\...\Sheet4_SFP_StepperDriver.SchDocn By: Matej Gomboc	



Koruzza Expander Board
Institute IRNAS Race

GND D- D+ 5V

J3

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

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

1

MITI GP10 12

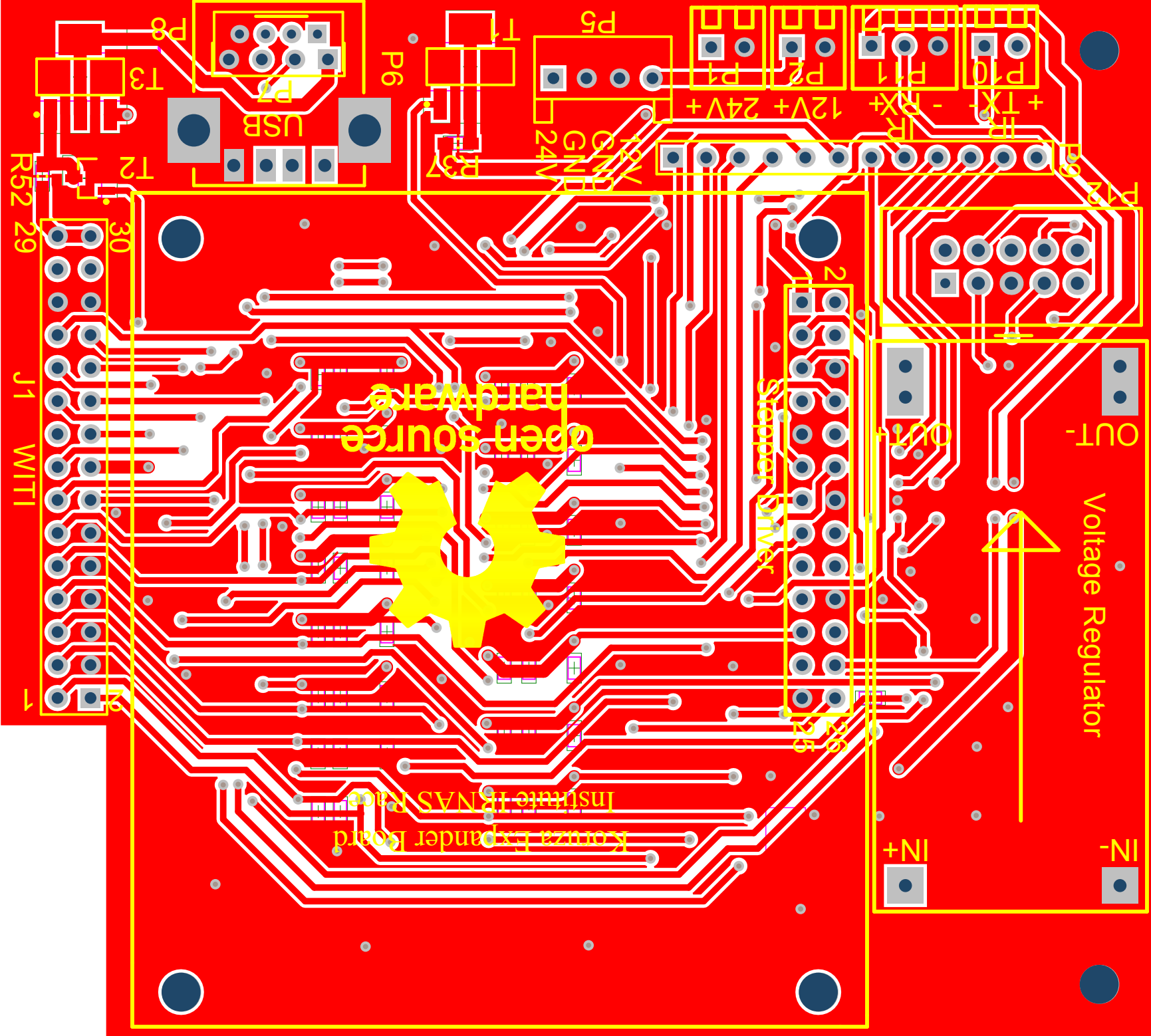
3U3
RX
GND
+ -

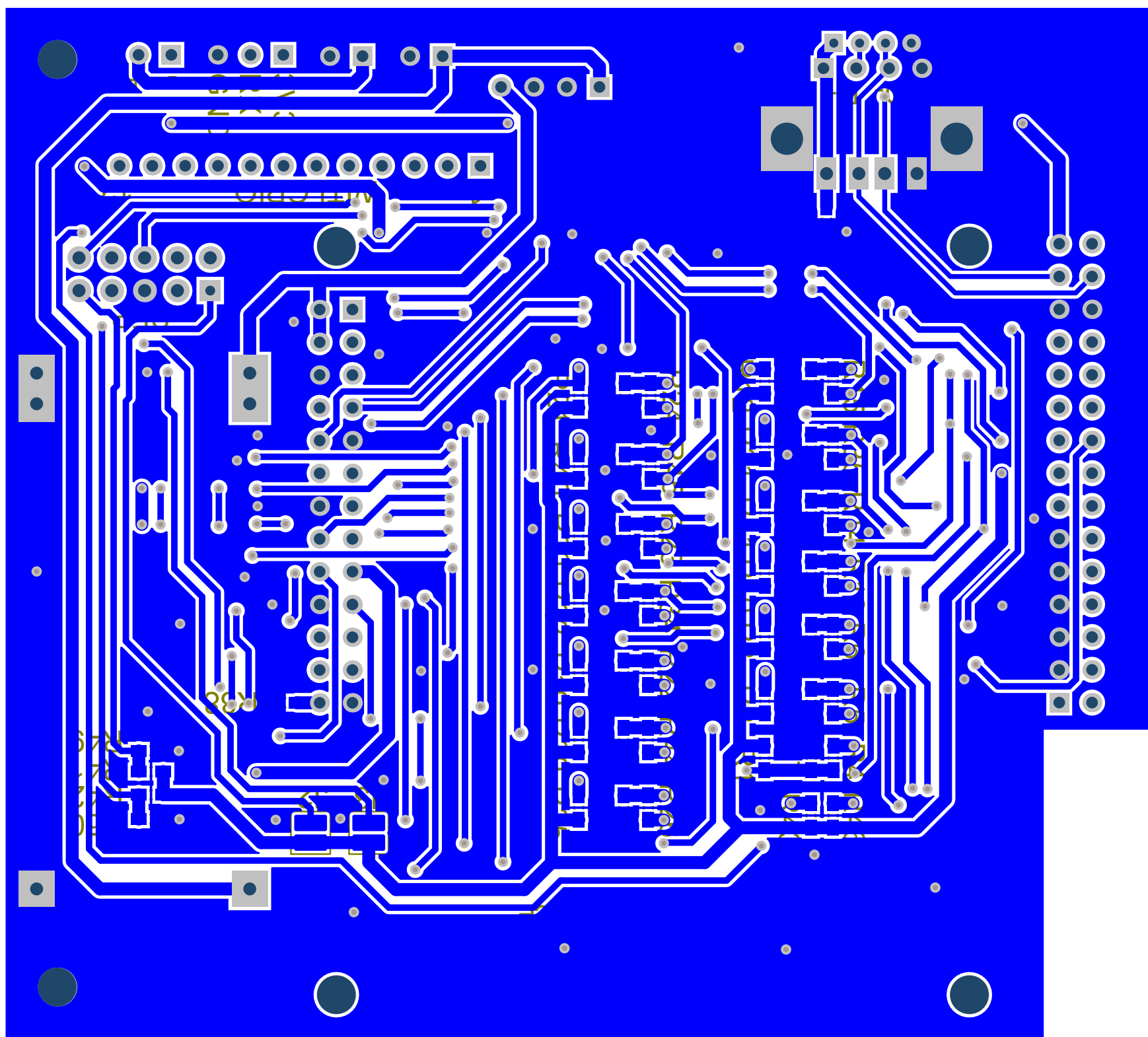
SFP

R38

J3
J2

R41
R42
R43
R44
R45
R46





Description	Comment	Designator	Quantity	Value
1X4 Pwr Header	Pwr Header	P5	1	
Ceramic Capacitor	0603	C1	1	100nF
Header, 4-Pin	Header 4	P7	1	
Header, 4-Pin, 2mm	Header 4, 2mm	P8	1	
Header, 12-Pin	Header 12	P9	1	
IR LED connector	IR LED connector	P10	1	
IR RX connector	IR RX connector	P11	1	
LM2596 module	LM2596 module	U1	1	12V
N MOSFET	PHT6N06T	T1	1	
N MOSFET	RSR010N10FHATL	T2	1	
P MOSFET	NDT2955	T3	1	
Resistor	0603	R1, R2, R3, R7, R8, R9, R10, R11, R12, R16, R17, R18, R19, R20, R21, R25, 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, R22, R23, R24, R26, R33, R34, R44, R45	14	0R
Resistor	0603	R52	1	1K
SFP IDC10 connector	SFP_IDC_connector	P12	1	
terminal block, 2.45mm	term_block_2_45mm	P1, P2	2	
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	