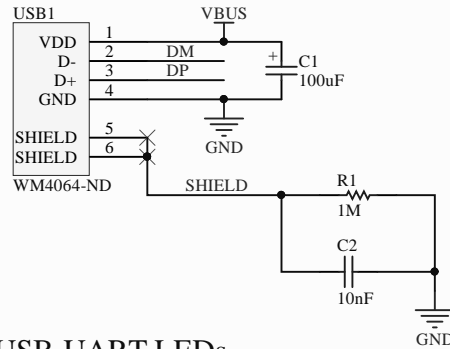
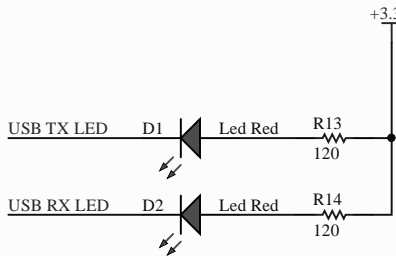


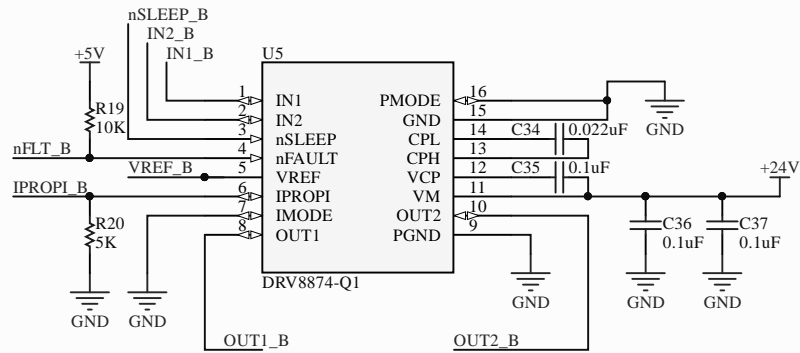
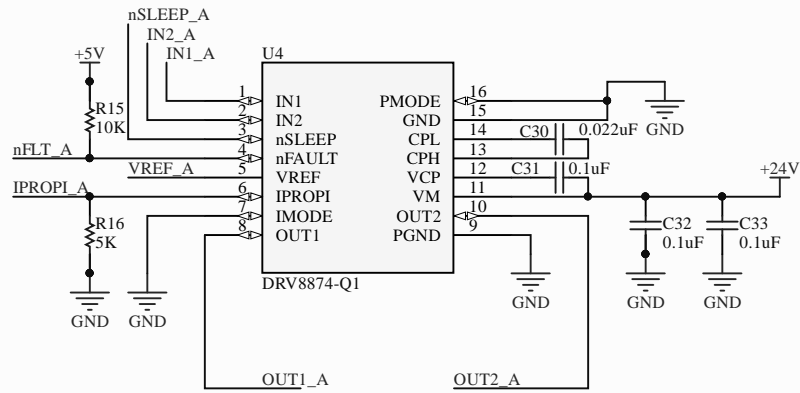
USB



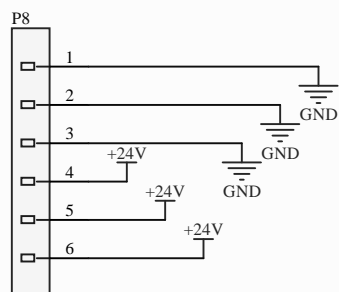
USB-UART LEDs



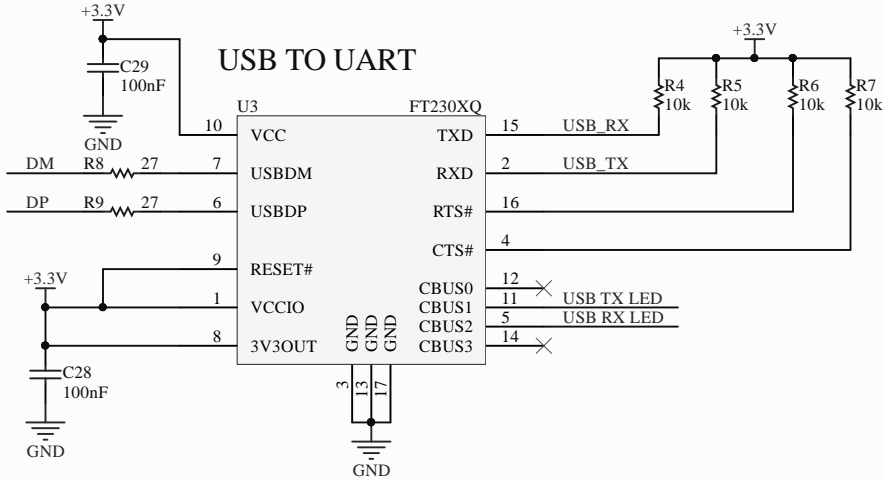
BDC Drivers



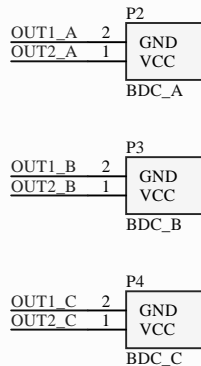
BOARD POWER CONNECTOR



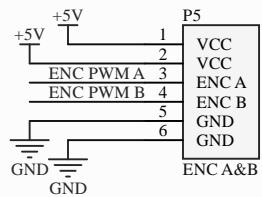
USB TO UART



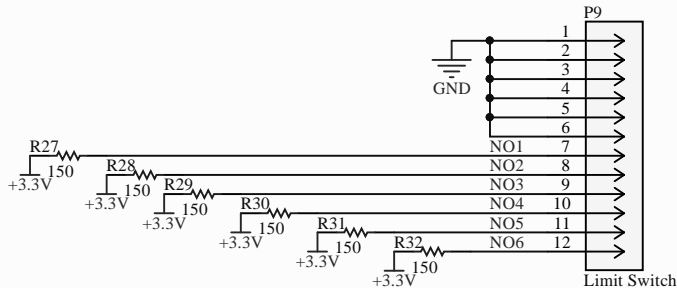
BDC CONNECTORS



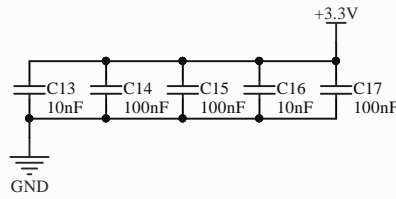
ENCODER CONNECTOR



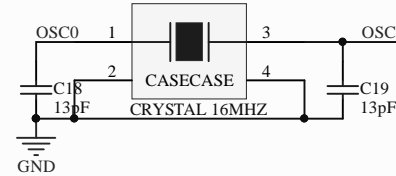
LIMIT SWITCH CONNECTOR



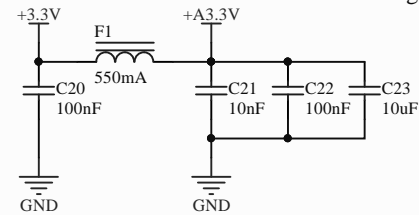
MCU decoupling



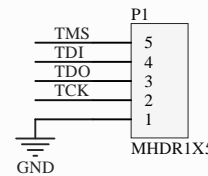
MCU OSC



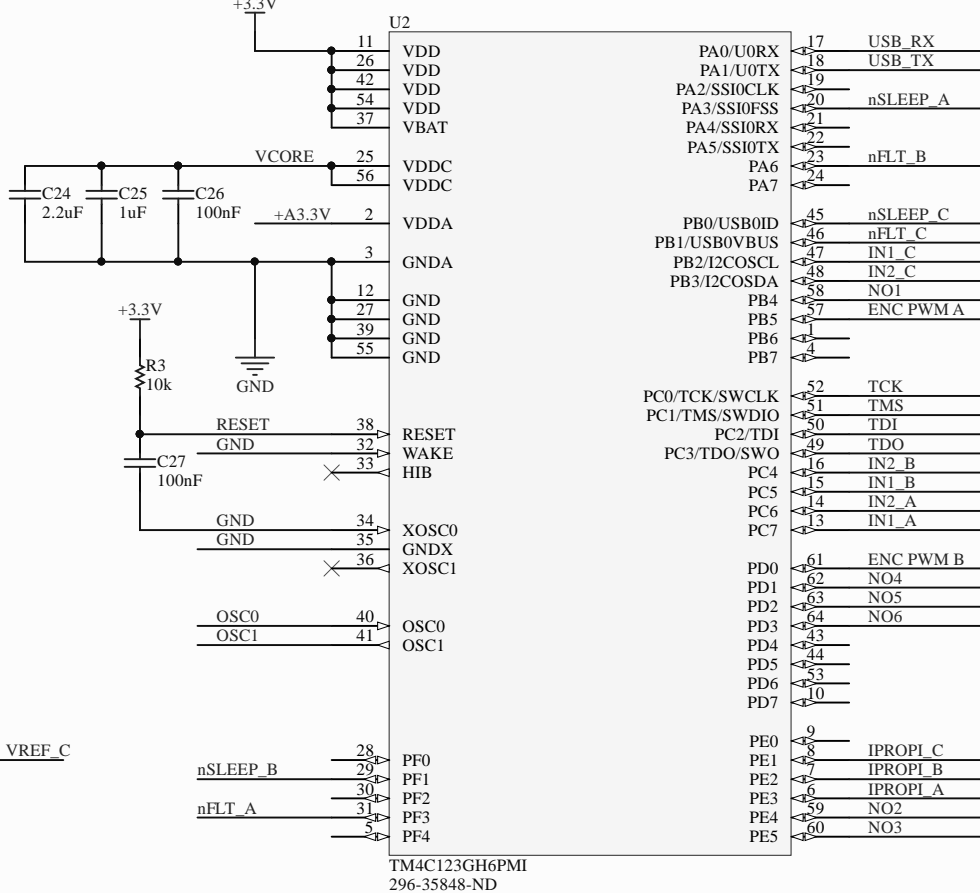
MCU Analog power



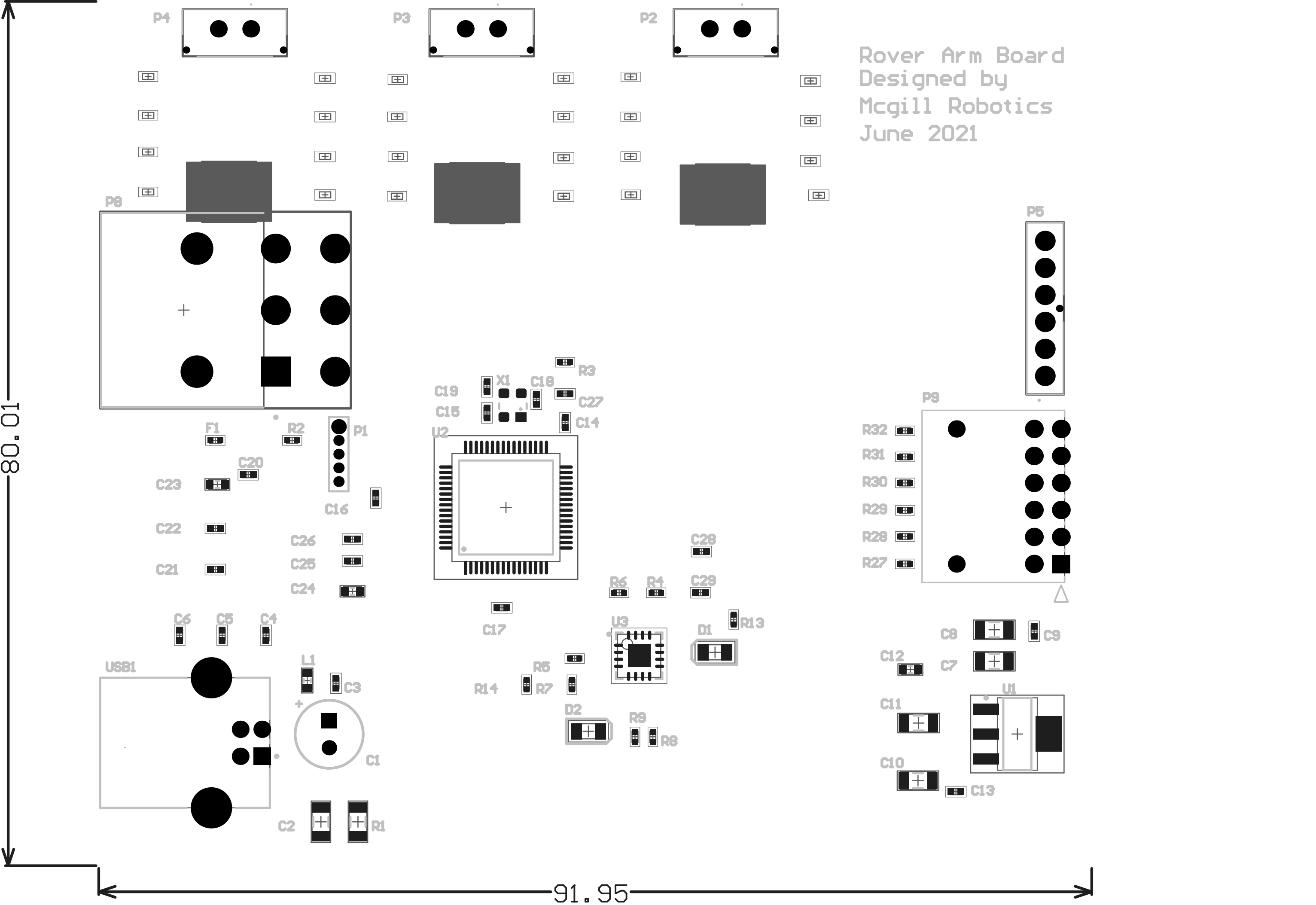
JTAG

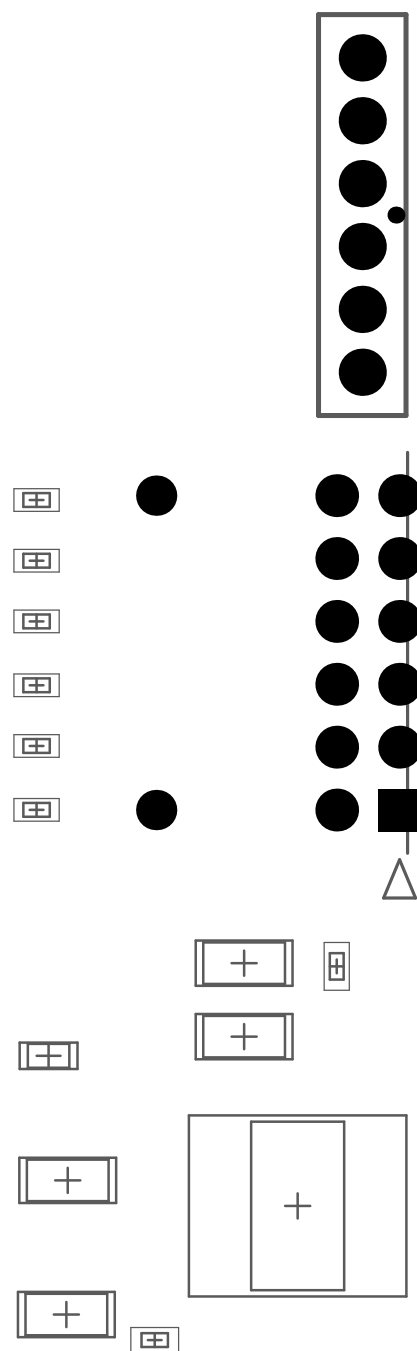
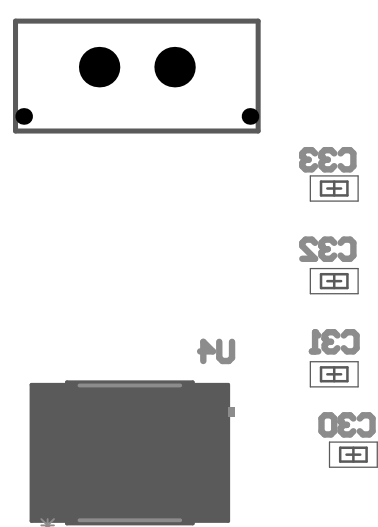
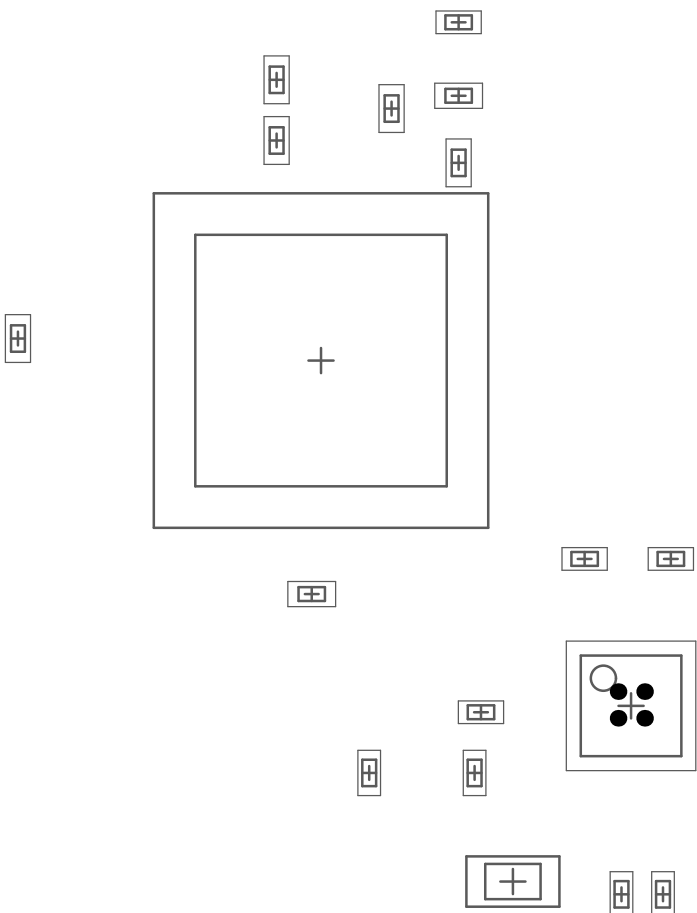
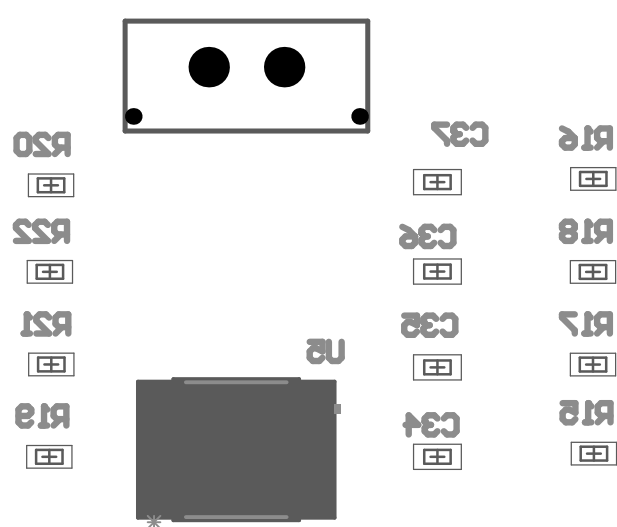
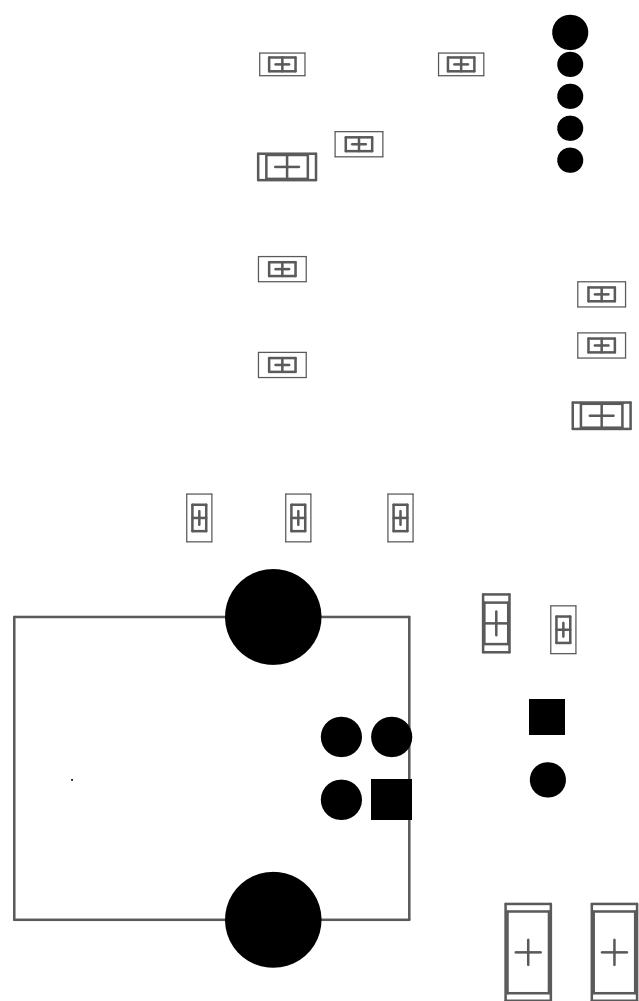
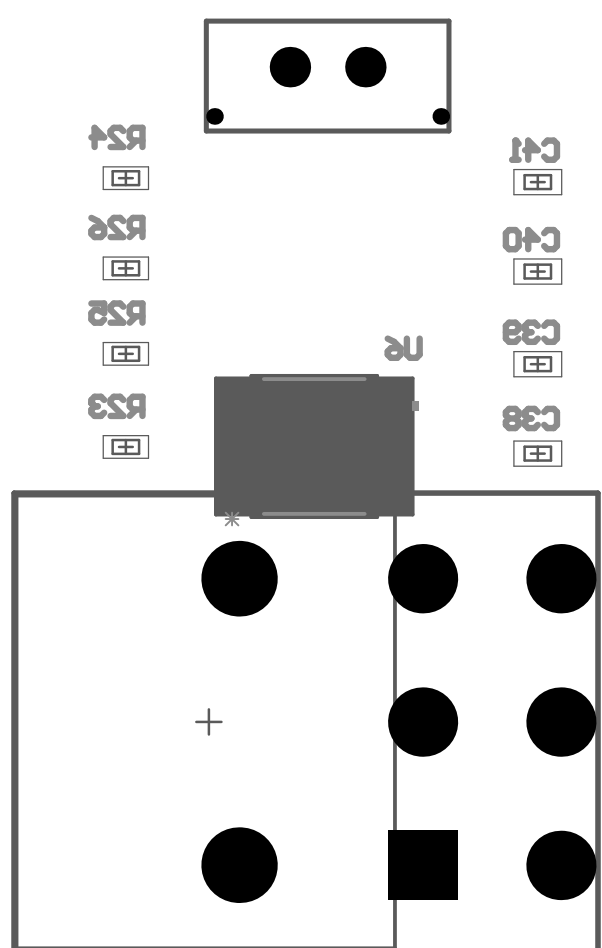


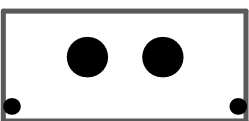
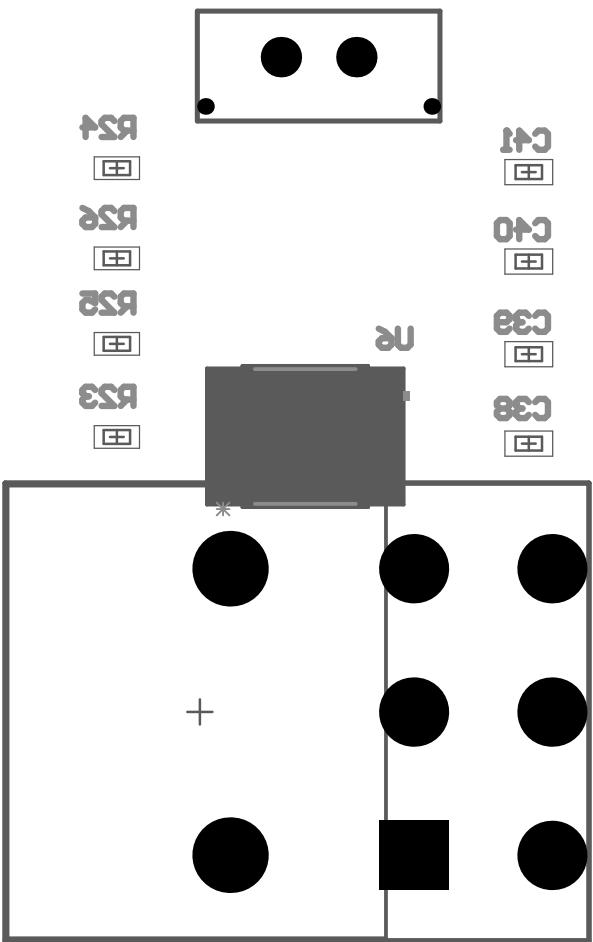
MCU



Title		
Size	Number	Revision
A4		
Date:	6/6/2021	Sheet of
File:	C:\Users\...\arm_v3.SchDoc	Drawn By:

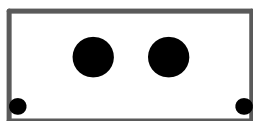




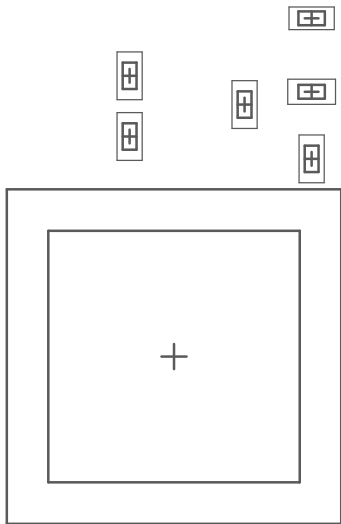


R50
R52
R51
R19
C41
C40
C38
C38

R50
R52
R51
R19
C41
C40
C38
C38

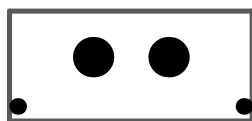


N2

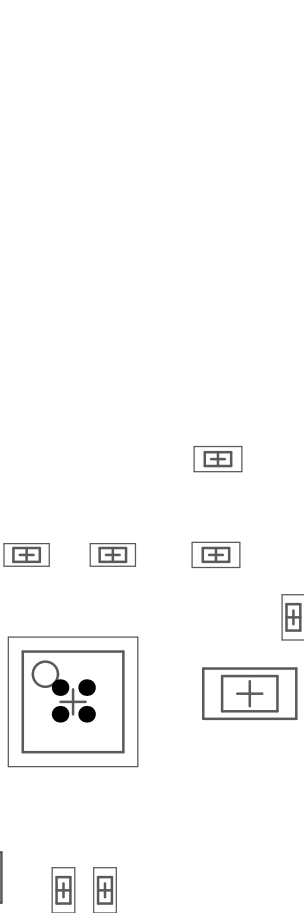


R19
R18
R17
R18
C37
C39
C38
C34

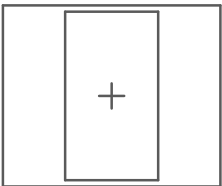
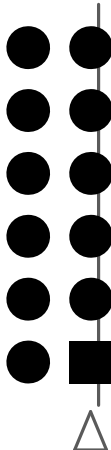
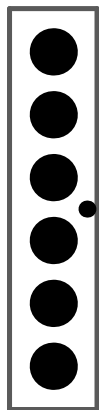
R19
R18
R17
R18
C37
C39
C38
C34

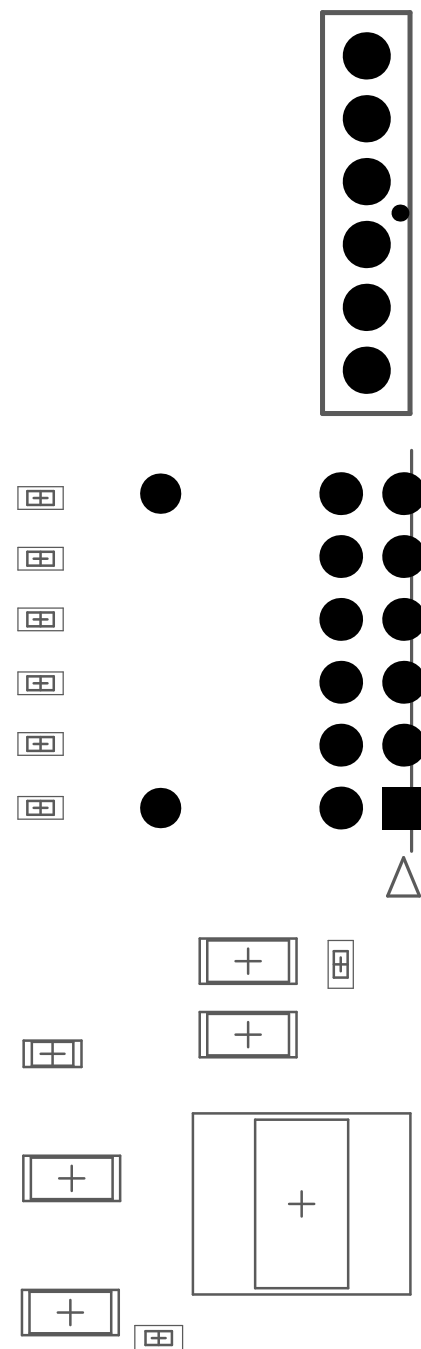
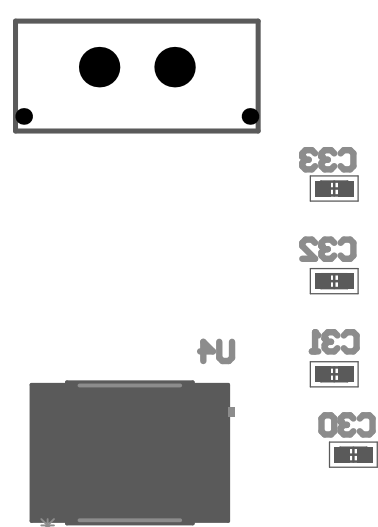
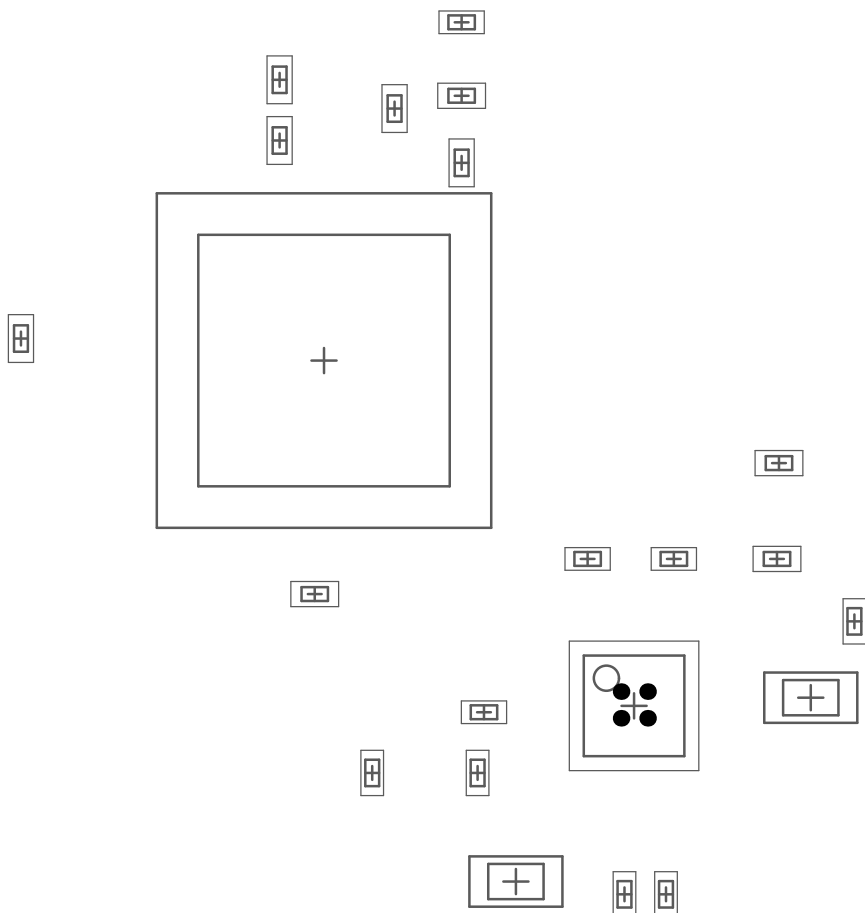
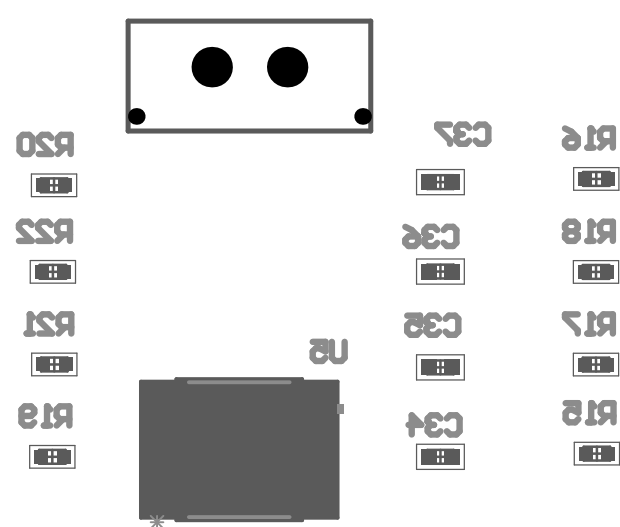
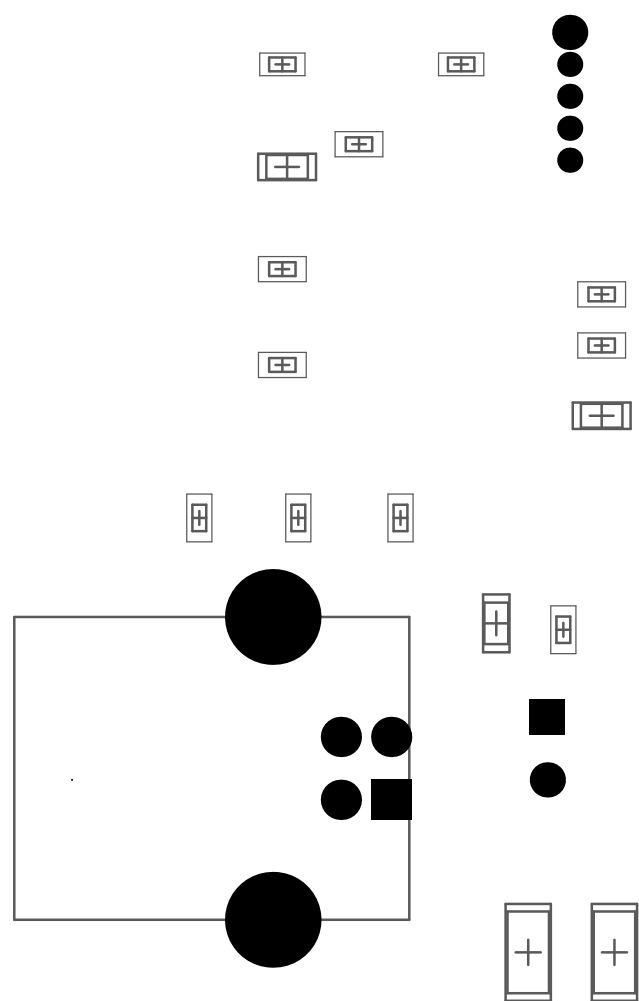
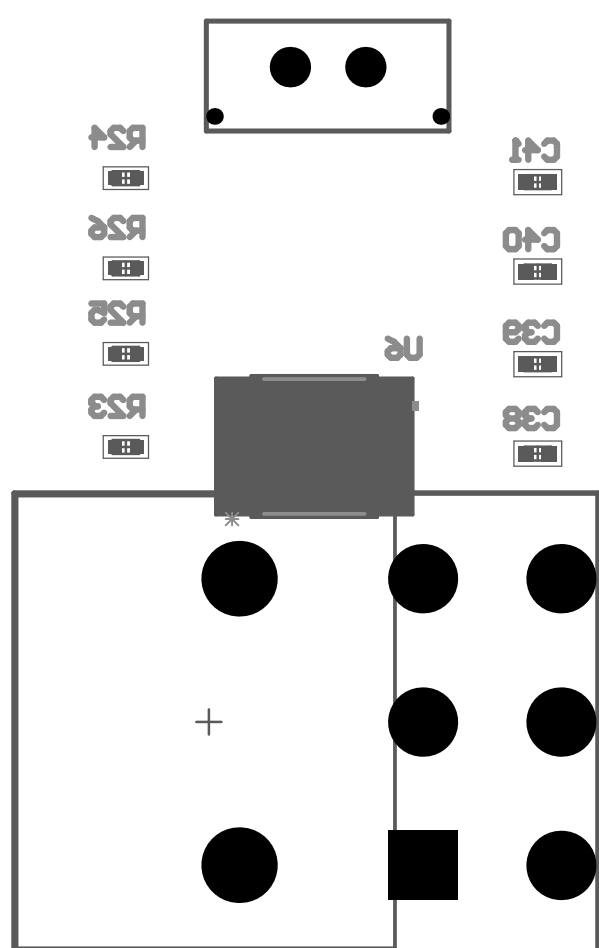


N4



R33
R35
R31
R30
C37
C39
C38
C34





Comment	Description	Designator	Footprint	LibRef	Quantity
100uF	Capacitor 35v 100uF 6.3mm	C1	CapAlu6.3mmx12.5mm	100uF_35v_6.3x12.5	1
10nF	CAP CER 10000PF 500V X7R 1206	C2	CAP_1206	10nF_500V_1206	1
10nF	CAP CER 10000PF 50V 10% X7R 0402	C3, C13, C16, C21	CAP_0402_M	10nF_50V_0402	4
100nF	CAP CER 100NF 50V 20% X5R 0402	C4, C14, C15, C17, C20, C22, C26, C27, C28, C29	CAP_0402_M	100nF_50V_0402	10
2.2uF	CAP CER 2.2UF 10V 20% X5R 0402	C5, C6	CAP_0402_M	2.2uF_10V_0402	2
100uF	CAP CER 100UF 6.3V X5R 1206	C7, C8, C10, C11	CAP_1206	100uF_6.3v_1206_X5R	4
1uF	CAP CER 1UF 25V 10% X5R 0402	C9, C25	CAP_0402_M	1uF_25V_0402	2
10uF	CAP CER 10UF 10V 20% X5R 0603	C12, C23	CAP_0603	10uF_10V_0603	2
13pF	CAP CER 13PF 50V 5% NP0 0402	C18, C19	CAP_0402_M	13pF_50V_0402	2
2.2uF	CAP CER 2.2UF 35V 10% X5R 0603	C24	CAP_0603	2.2uF_35V_0603	1
0.022uF	CAP CER 100NF 50V 20% X5R 0402	C30, C34, C38	CAP_0402_M	100nF_50V_0402	3
0.1uF	CAP CER 100NF 50V 20% X5R 0402	C31, C32, C33, C35, C36, C37, C39, C40, C41	CAP_0402_M	100nF_50V_0402	9
Led Red	LED TOPLED 630NM SUP RED CLR SMD	D1, D2	TOPLED 0805	TOPLED 0803	2
550mA	FERRITE CHIP 40 OHM 550MA 0402	F1	RES_0402_M	40O_550mA_0402	1
200R	FILTER CHIP 220 OHM 2A 0603	L1	IND_0603	Ferrite_200 ohms_2A	1
MHDR1X5	Header, 5-Pin	P1	MHDR1X5	MHDR1X5	1
BDC_A	Connector	P2	436500227	43650-0227	1
BDC_B	Connector	P3	436500227	43650-0227	1
BDC_C	Connector	P4	436500227	43650-0227	1
ENC A&B	Connector	P5	1053091106	105309-1106	1
76825-0006		P8		76825-0006	1
Limit Switch	No Description Available	P9	CON_1053141112	1053141112	1
1M	RES SMD 1M OHM 5% 1/4W 1206	R1	RES_1206	1M_5%_1206	1
10k	RES SMD 10K OHM 1% 1/10W 0402, RES SMD 0 OHM JUMPER 1/16W 0402	R2, R3, R4, R5, R6, R7, R15, R19, R23	RES_0402_M	10k_1%_0402, 0_0402	9
27	RES SMD 27 OHM 1% 1/10W 0402	R8, R9	RES_0402_M	27_1%_0402	2
120	RES SMD 120 OHM 1% 1/10W 0402	R13, R14	RES_0402_M	120_1%_0402	2
5K	RES SMD 0 OHM JUMPER 1/16W 0402	R16, R20, R24	RES_0402_M	0_0402	3
16K	RES SMD 0 OHM JUMPER 1/16W 0402	R17, R18, R21, R22, R25, R26	RES_0402_M	0_0402	6
150	RES SMD 10K OHM 1% 1/10W 0402	R27, R28, R29, R30, R31, R32	RES_0402_M	10k_1%_0402	6
MCP1825S-3302E/DB	500 mA, Low Voltage, Low Quiescent Current LDO Regulator	U1	SOT230P700X180-4N	MCP1825S-3302E/DB	1
TM4C123GH6PMI	Tiva TM4C123GH6PM Microcontroller ARM Cortex 80 MHz FPU	U2	TSQFP50P1200X1200X120-64N	TM4C123GH6PMI	1
FT230XQ	IC USB SERIAL BASIC UART 16QFN	U3	QFN65P400X400X80_HS-17N	FT230XQ-R	1
DRV8874-Q1	No Description Available	U4, U5, U6	SOIC_PWPRQ1_TEX	DRV8876QPWPRQ1	3
USB type-B jack	USB type-B jack	USB1	USB2.5-2H4E	MOLEX 0670688010	1
CRYSTAL 16MHZ	CRYSTAL 16MHZ 20PF SMD	X1	CRYSTAL_3.2x2.5	403C35E16M00000	1

Design Rules Verification Report

Filename : C:\Users\laboud\OneDrive\Documents\Robotics\git2\rover-pcb\Projects\arm_v3\arm

Warnings 0

Rule Violations 0

Warnings	
Total	0

Rule Violations	
Width Constraint (Min=6mil) (Max=100mil) (Preferred=10mil) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole Size Constraint (Min=1mil) (Max=150mil) (All)	0
Hole To Hole Clearance (Gap=10mil) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0mil) (All),(All)	0
Silk To Solder Mask (Clearance=0mil) (IsPad),(All)	0
Silk to Silk (Clearance=0mil) (All),(All)	0
Net Antennae (Tolerance=0mil) (All)	0
Height Constraint (Min=0mil) (Max=1000mil) (Preferred=500mil) (All)	0
Total	0