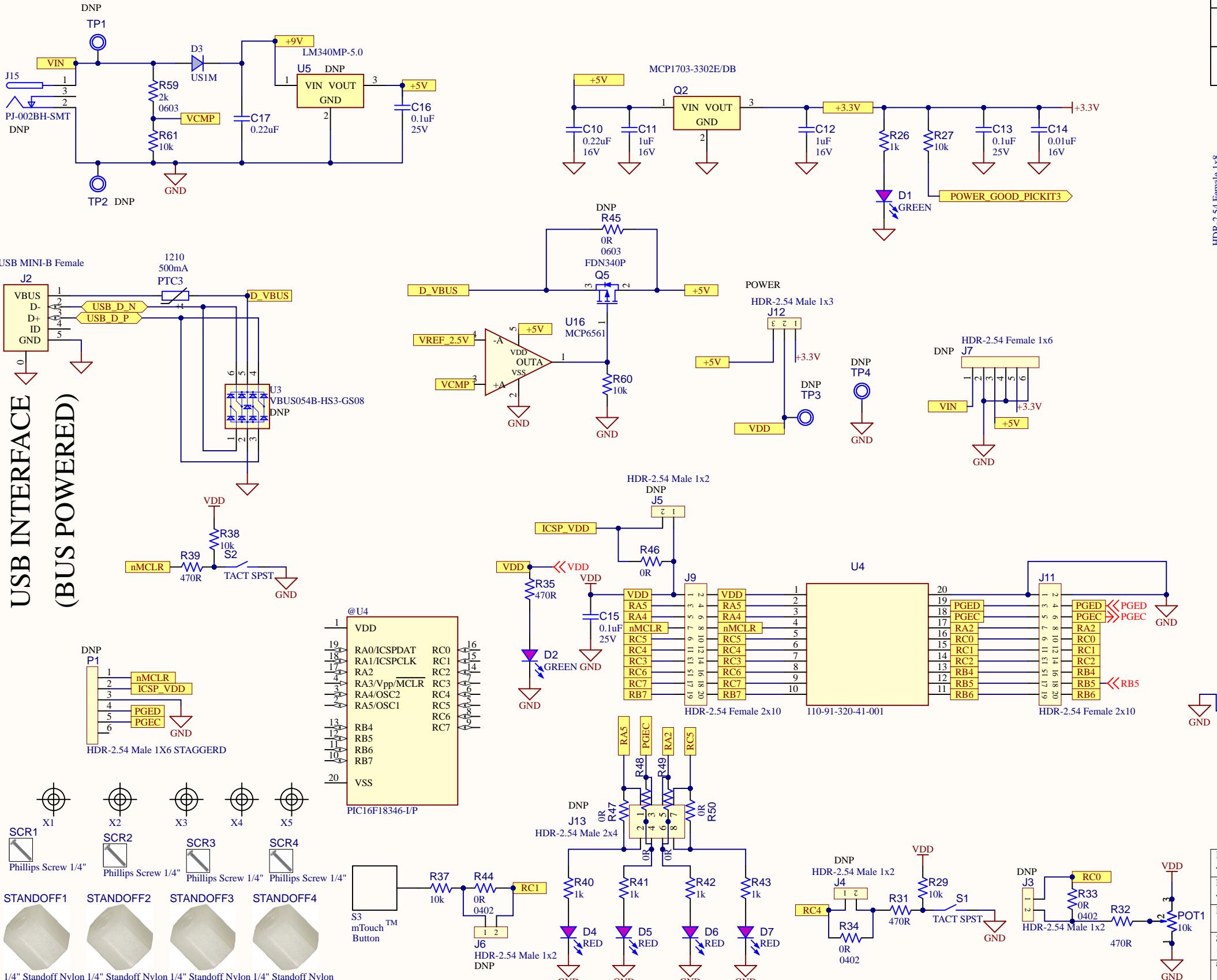
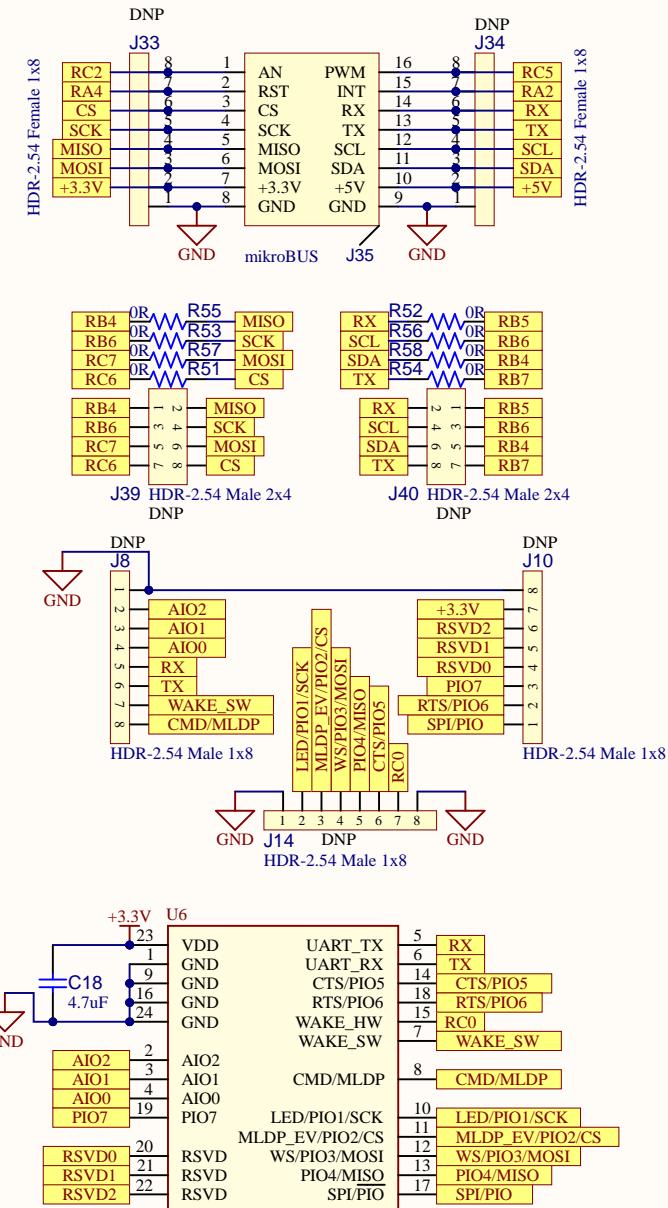


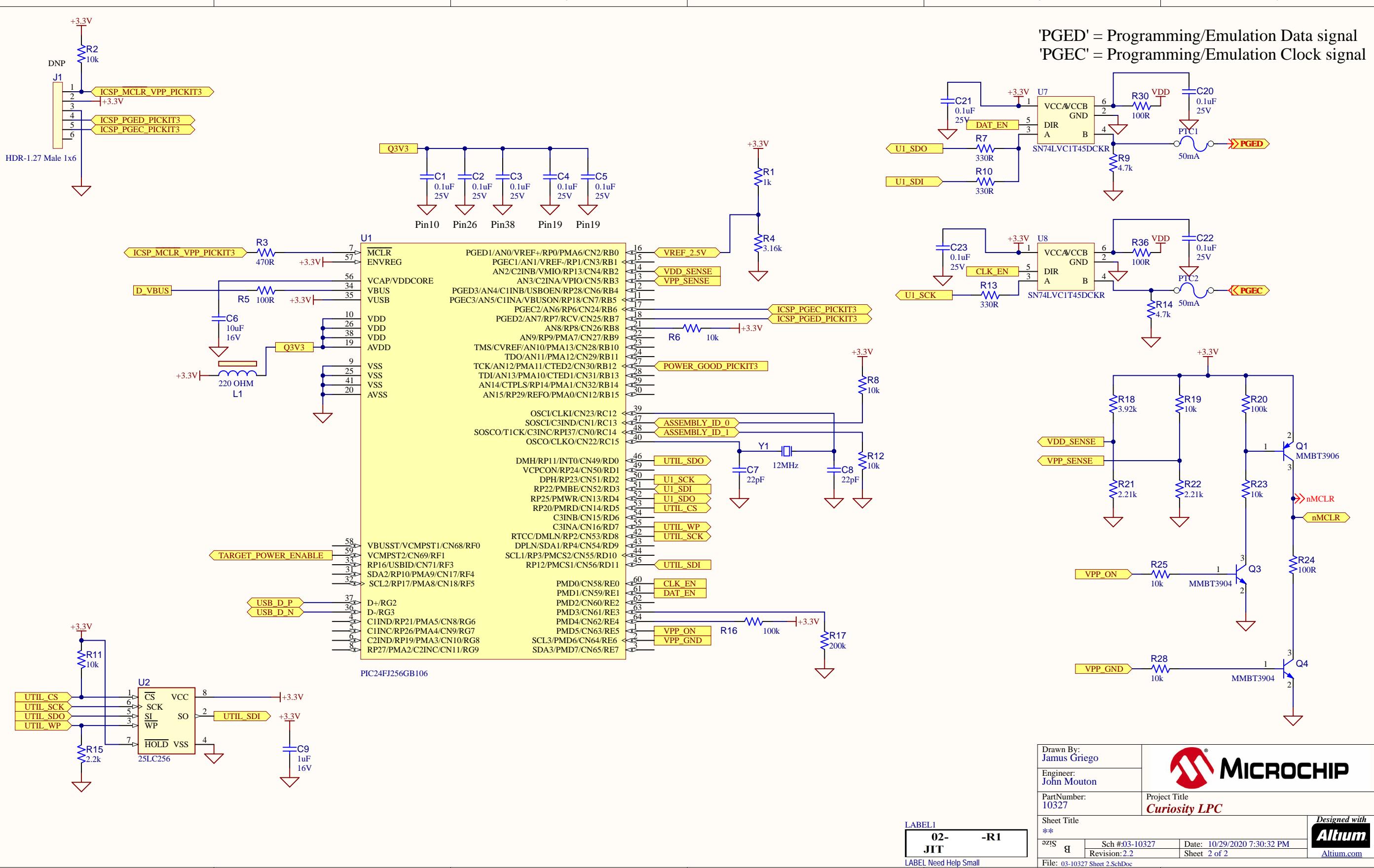
## USB INTERFACE (BUS POWERED)



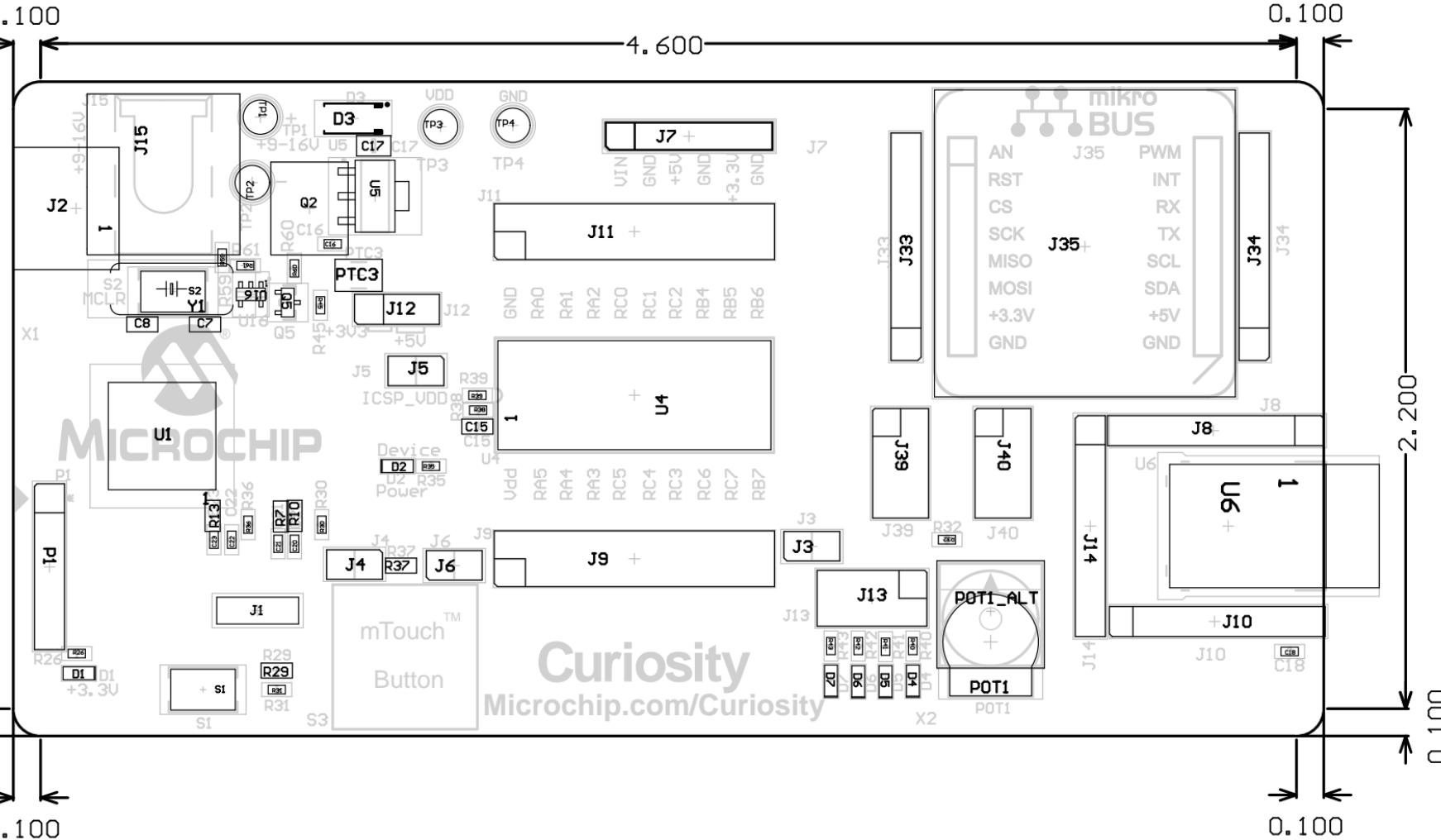
REV	ECO#	DESCRIPTION	DATE
2		Move Silkscreen of R14 so it can be read. Swap RB4 and RC7 connections. Change @U4 to PIC16F1619-I/P	3-31-2015
2.2		Change @U4 to PIC16F18346-I/P	8-2-2018

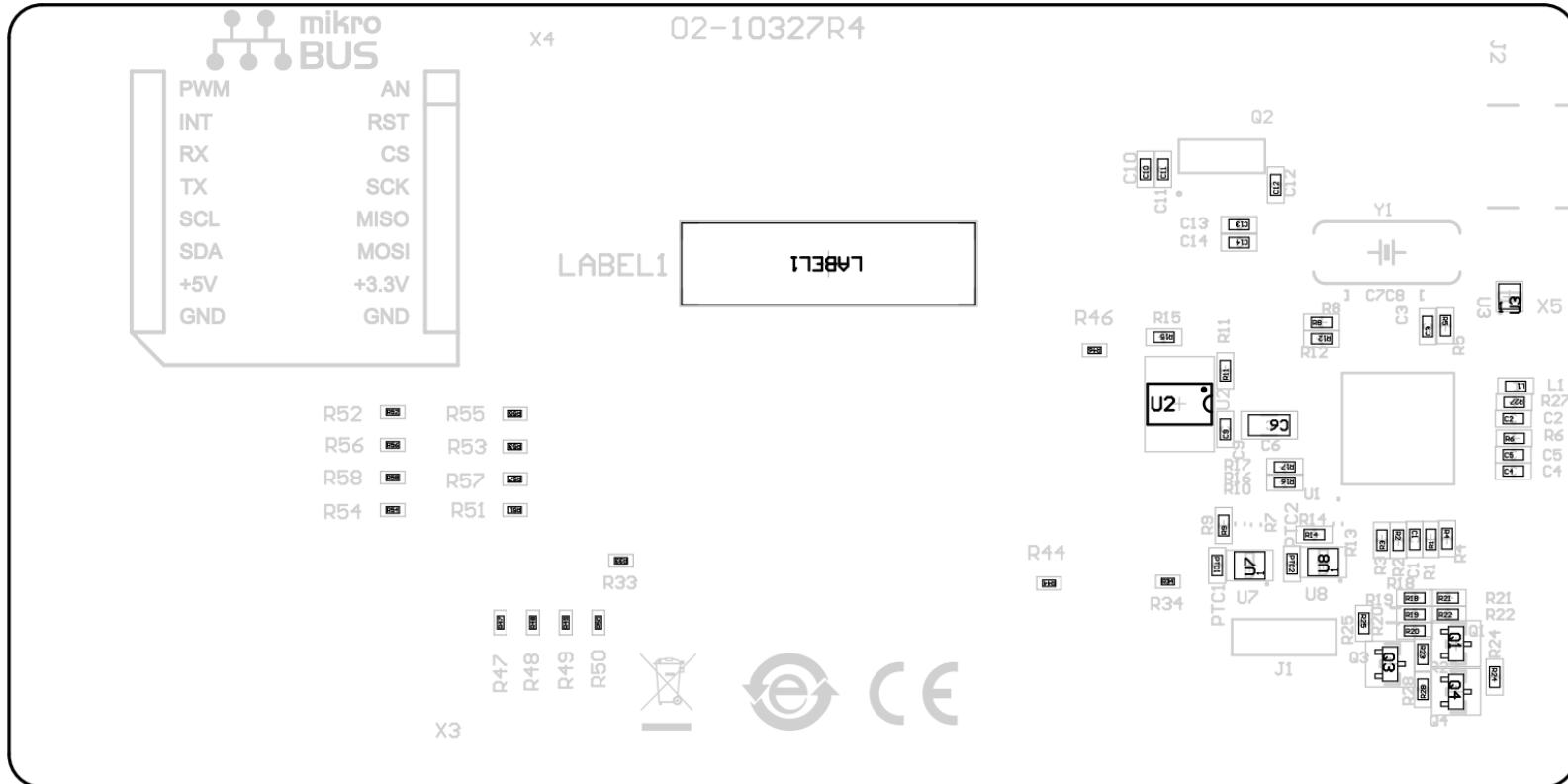


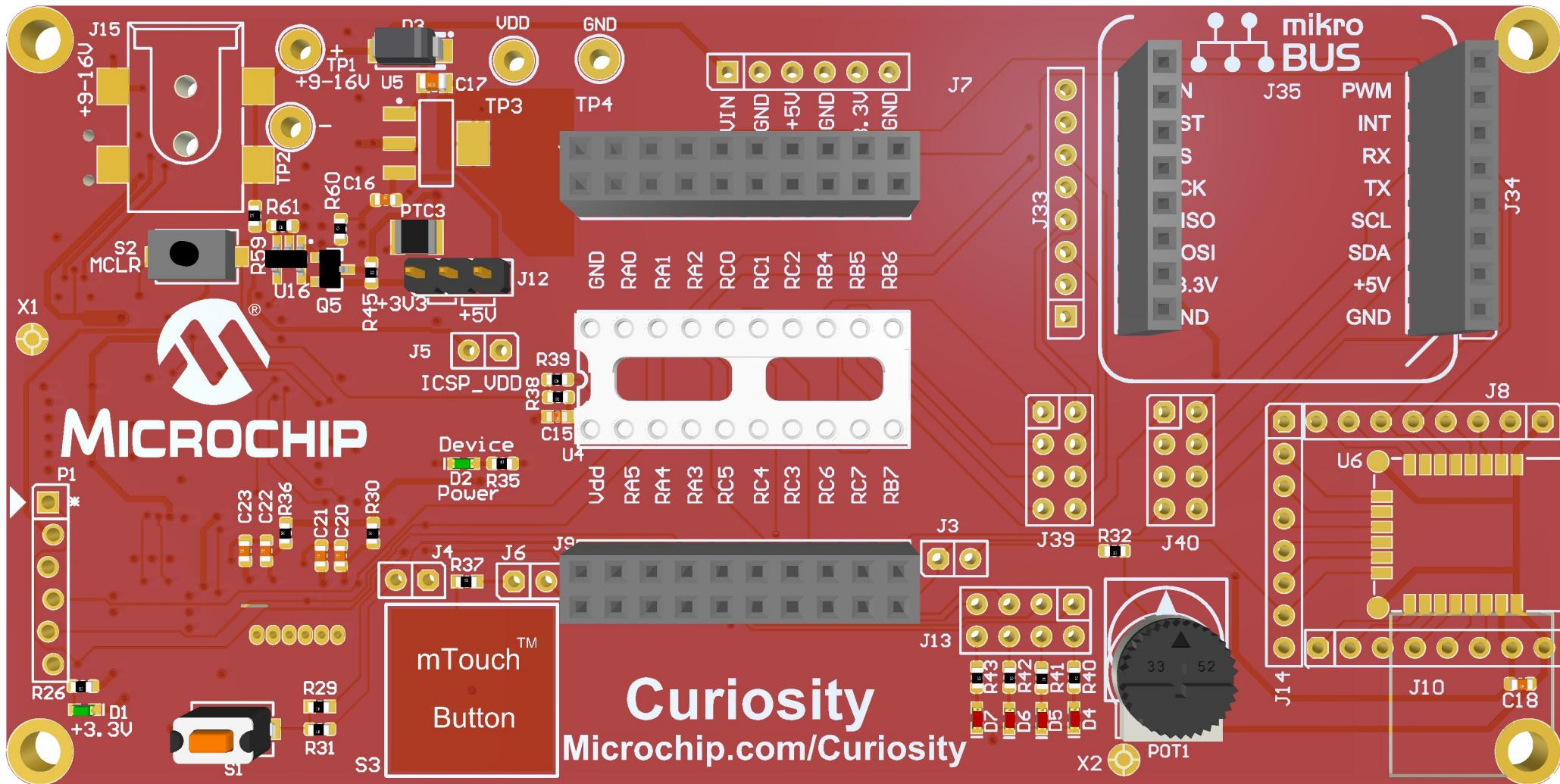
Drawn By: James Griego  
 Engineer: John Mouton  
 Part Number: 10327  
 Project Title: Curiosity LPC  
 Sheet Title: \*\*\*  
 Size: B Sch #: 03-10327 Date: 10/29/2020 7:30:32 PM  
 Revision: 2.2 Revision: 1 of 1  
 File: 03-10327 sheet 1.SchDoc  
 Designed with Altium  
 Altium.com

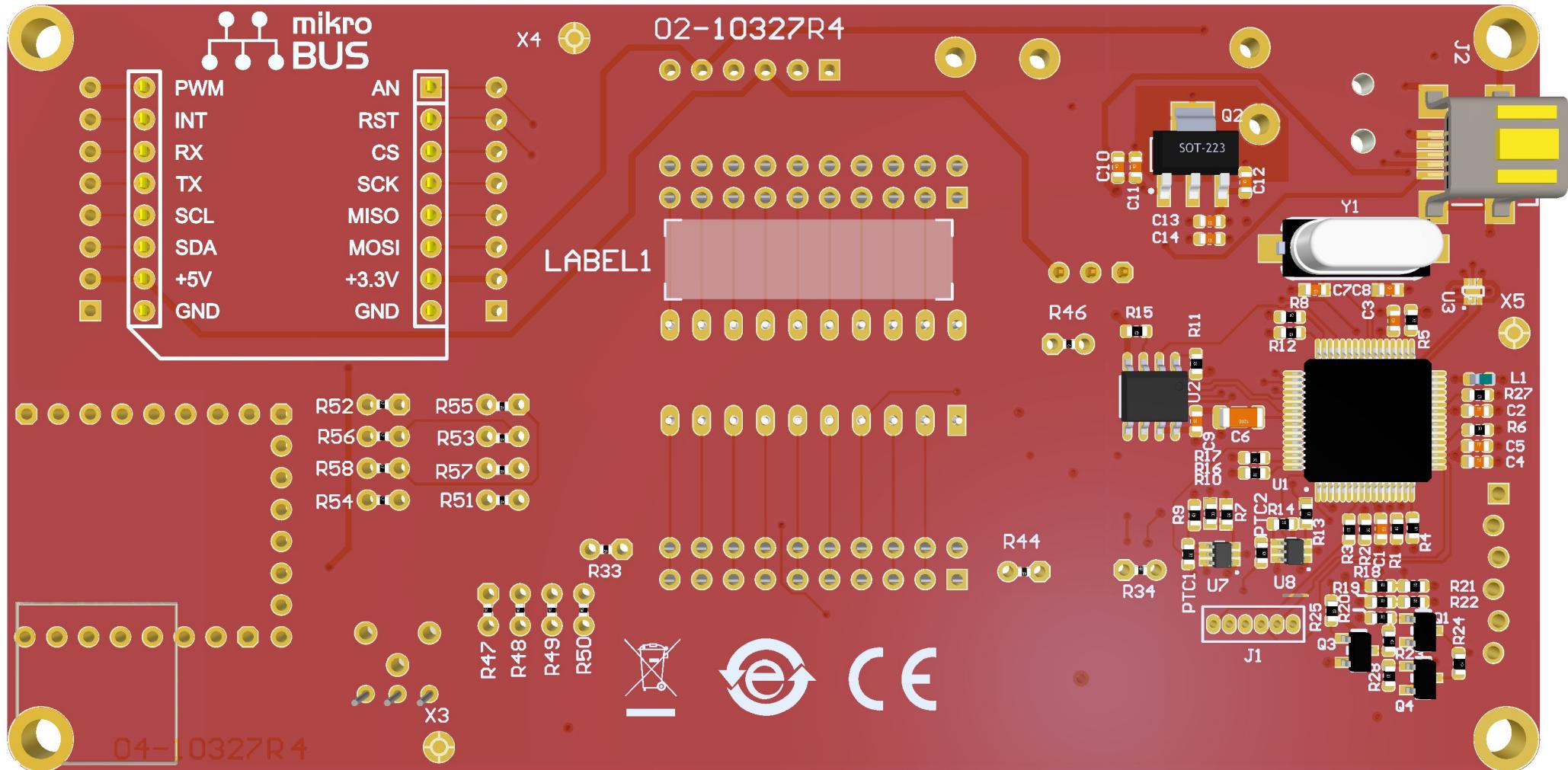


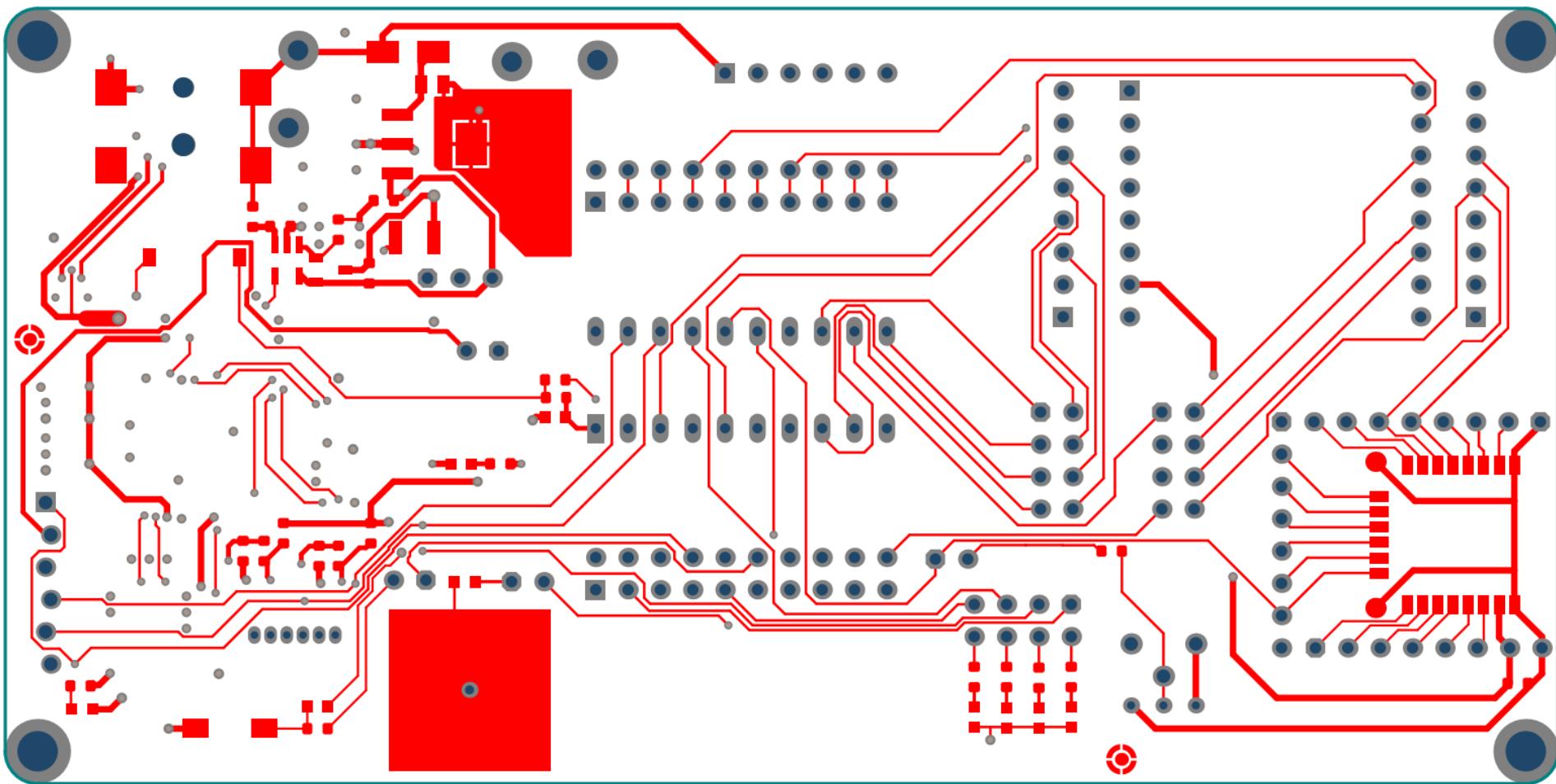


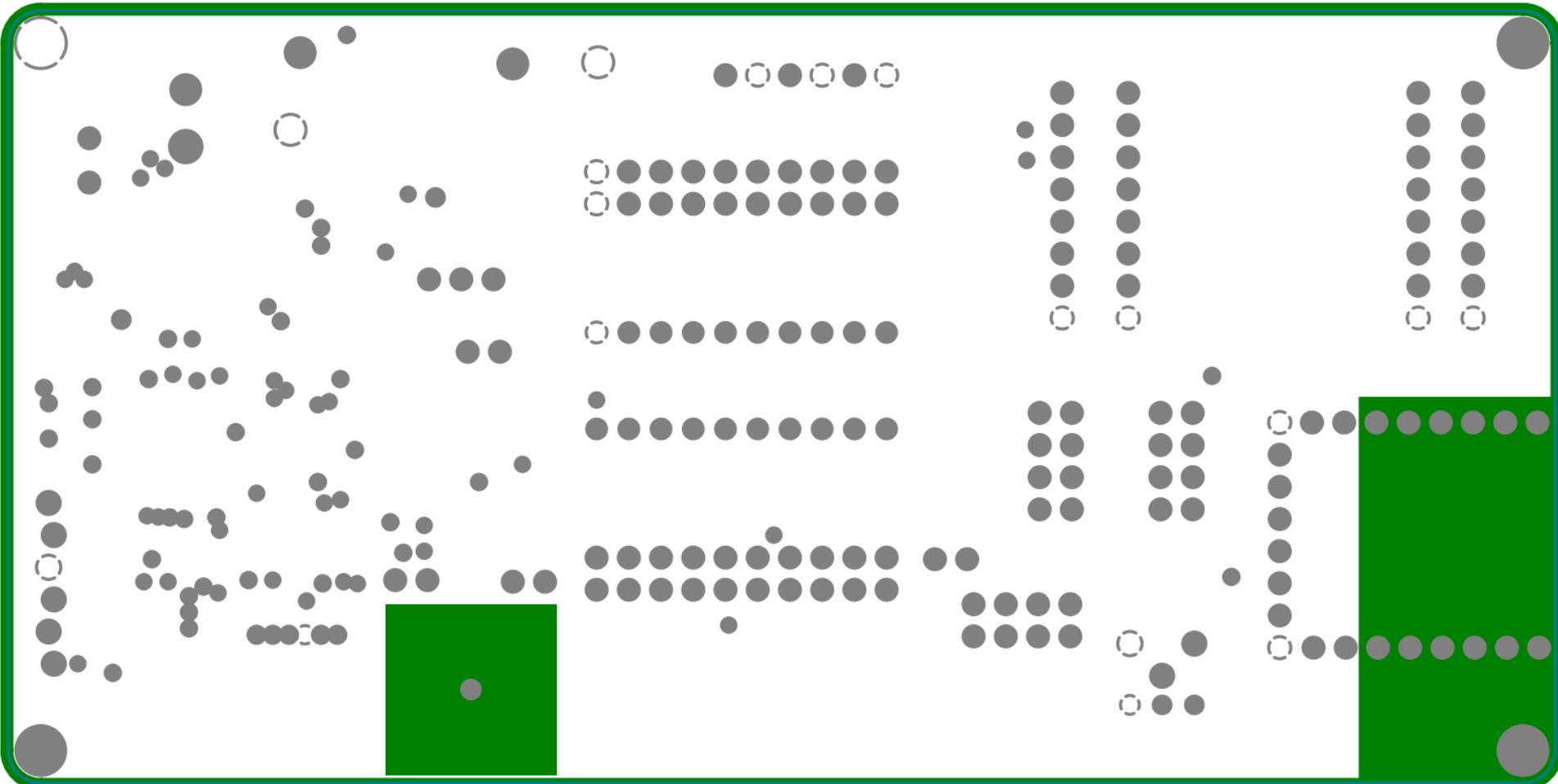


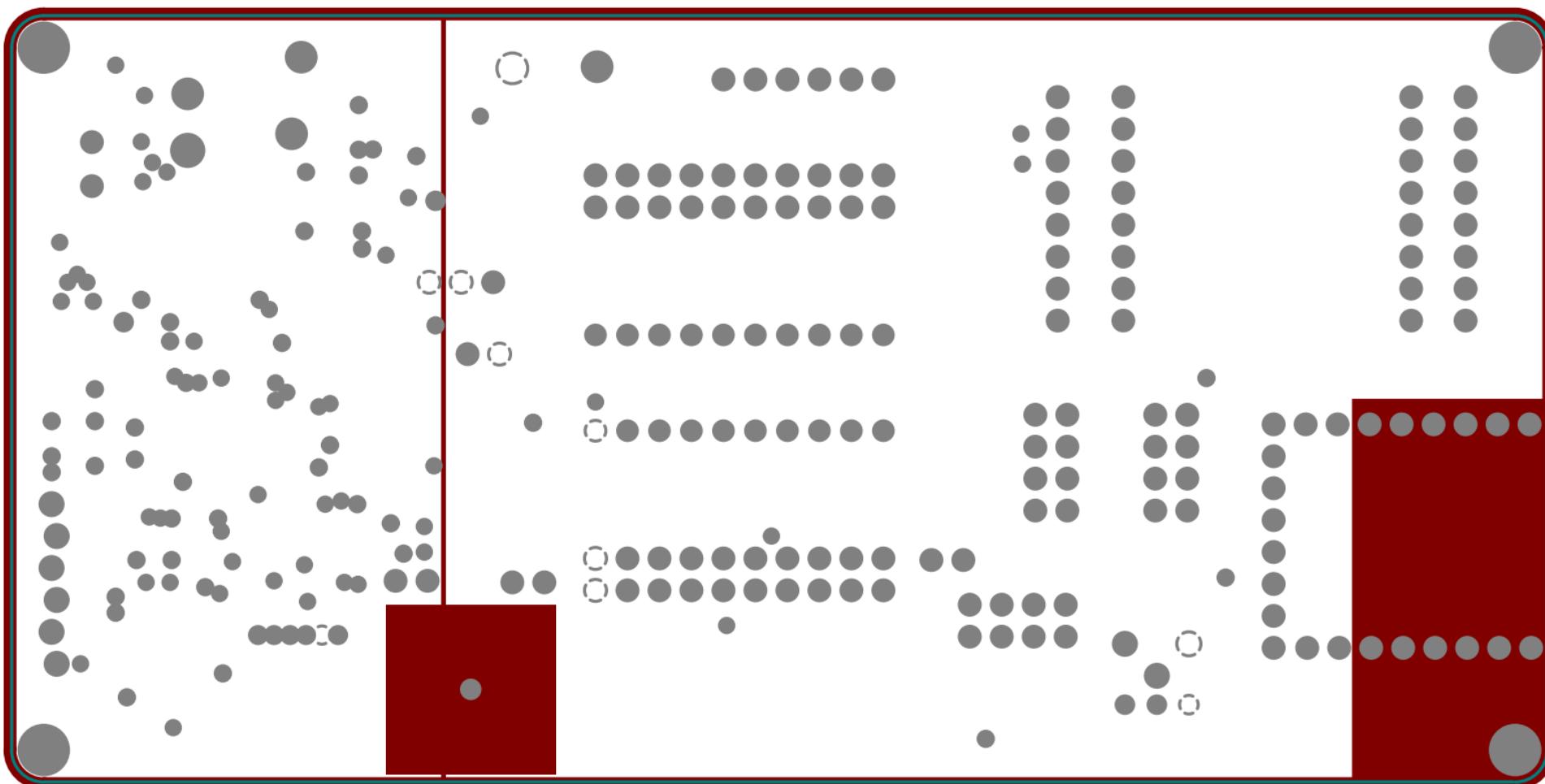




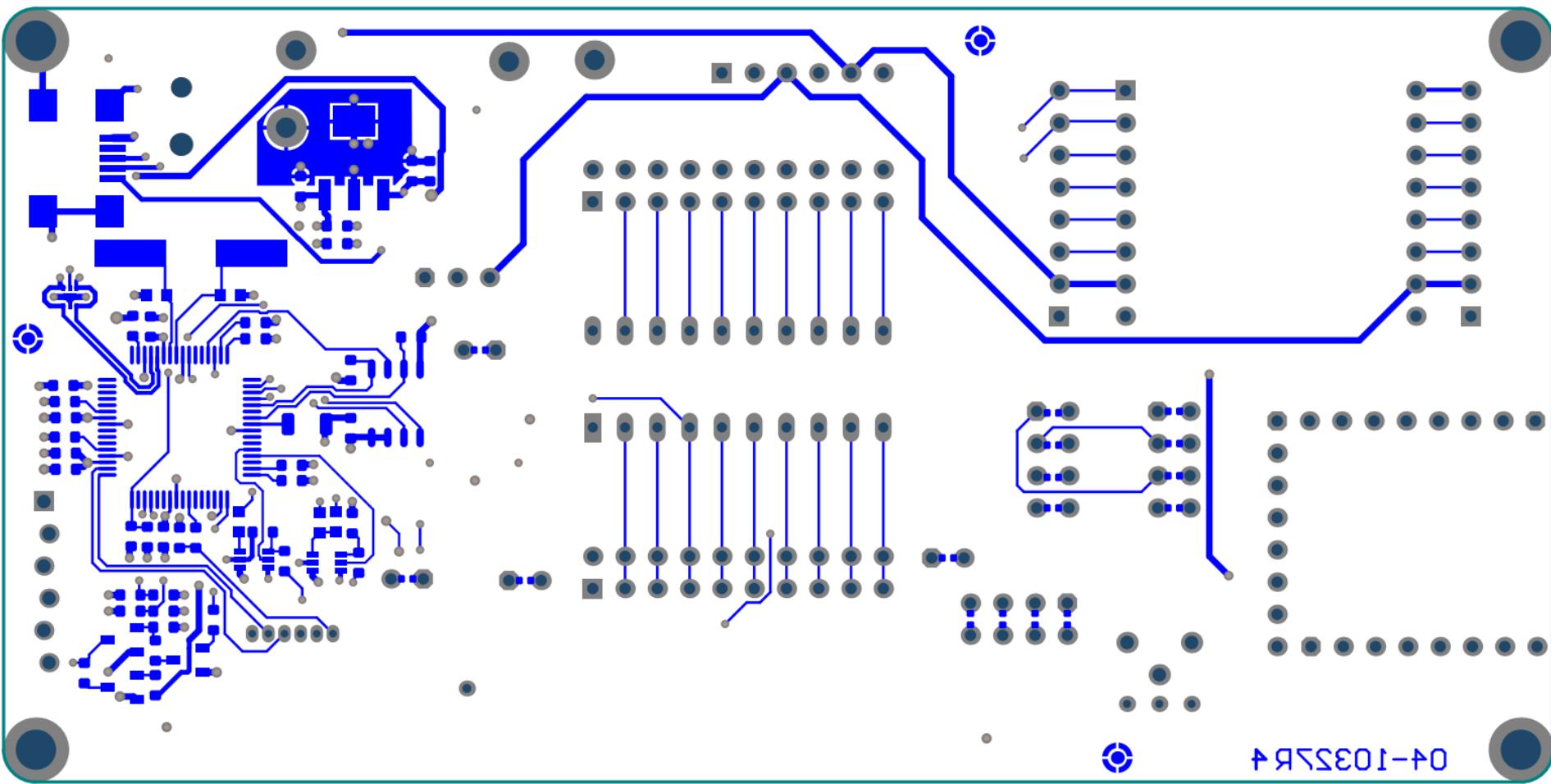








47303104



## Component list

Bill of Materials Fitted for Project [02-10327 Curiosity.PjPcb] (No PCB Document Selected)

Source Data From:

02-10327 Curiosity.PjPcb

Project:

02-10327 Curiosity.PjPcb

Variant:

None

Report Date: 10/29/2020 7:30 PM  
Print Date: 10/29/2020 7:28:41 PM



**MICROCHIP**

Designator	Quantity	Value	Manufacturer 1	Manufacturer Part Number 1	Description
@U4	1	PIC16F18346-I/P	Microchip Technology	PIC16F18346-I/P	
C1, C2, C3, C4, C5, C13, C15, C16, C20, C21, C22, C23	12	0.1uF	KEMET	C0603C104M3RACTU	Capacitor
C6	1	10uF	TDK	C3216X5R1C106K	Capacitor
C7, C8	2	22pF	Murata	GRM1885C2A220JA01D	Capacitor
C9, C11, C12	3	1uF	Taiyo Yuden	EMK107B7105KA-T	Capacitor
C10	1	0.22uF	KEMET	C0603C224Z4VACTU	Capacitor
C14	1	0.01uF	Samsung	CL10B103KO8NNNC	Capacitor
C17	1	0.22uF	Murata	GCM21BR71H224KA37L	Capacitor
C18	1	4.7uF	Taiyo Yuden	LMK107BJ475KA-T	Capacitor
D1, D2	2	GREEN	Lite-On	LTST-C190GKT	LED
D3	1	US1M	Vishay	US1M-E3/61T	
D4, D5, D6, D7	4	RED	Lite-On	LTST-C190KRKT	LED
J1	1	HDR-1.27 Male 1x6	Sullins	GRP8061VVVN-RC	
J2	1	USB MINI-B Female	Hirose	UX60-MB-5ST	Connector USB
J3, J4, J5, J6	4	HDR-2.54 Male 1x2	Molex Inc	22284020	
J7	1	HDR-2.54 Female 1x6	FCI	75915-306LF	
J8, J10, J14	3	HDR-2.54 Male 1x8	FCI	68001-108HLF	
J9, J11	2	HDR-2.54 Female 2x10	Samtec, SHENZHEN JUNHAO ENGINEERING	SSW-110-01-S-D, 214-2010-0021-000	
J12	1	HDR-2.54 Male 1x3	JAMECO VALUEPRO	7000-1X3SG-R	
J13, J39, J40	3	HDR-2.54 Male 2x4	Samtec	TSW-104-08-L-D	
J15	1	PJ-002BH-SMT	CUI Inc	PJ-002BH-SMT-TR	
J33, J34	2	HDR-2.54 Female 1x8	Sullins	PPTC081LFBN-RC	CON HDR-2.54 Female 1x8 Gold TH
J35	1	mikroBUS	Sullins Connector Solutions	PPTC081LFBN-RC	
L1	1	220 OHM	Murata Electronics North America	BLM18AG221SN1D	
LABEL1	1	LABEL Need Help Small			
P1	1	HDR-2.54 Male 1x6 STAGGERD	Sullins Connector Solutions	PBC06SAAN	
POT1	1	10k	Bourns	3352T-1-103	Resistor Var
POT1_ALT	1	10K	Bourns Inc.	3386P-1-103TLF	Resistor Var
PTC1, PTC2	2	50mA	Bel Fuse	0ZCM0005FF2G	
PTC3	1	500mA	Bel Fuse Inc	0ZCB0050FF2G	
Q1	1	MMBT3906	Central Semiconductor	CMPT3906-PST-LEA DFREE	Transistor Bipolar
Q2	1	MCP1703/3.3V	Microchip	MCP1703-3302E/DB	LDO
Q3, Q4	2	MMBT3904	Diodes Incorporated	MMBT3904-7	Transistor Bipolar
Q5	1	FDN340P	Fairchild Semiconductor	FDN340P	Transistor MOS
R1, R26, R40, R41, R42, R43	6	1k	Panasonic	ERJ-3EKF1001V	Resistor
R2, R6, R8, R11, R12, R19, R23, R25, R27, R28, R29, R37, R38, R60, R61	15	10k	NIC Components	NRC06F1002TRF	Resistor
R3, R31, R32, R35, R39	5	470R	Yageo	RC0603FR-07470RL	Resistor
R4	1	3.16k	Panasonic	ERJ-3EKF3161V	Resistor
R5, R24, R30, R36	4	100R	Panasonic	ERJ-3EKF1000V	Resistor
R7, R10, R13	3	330R	ROHM	MCR03EZPFX3300	Resistor
R9, R14	2	4.7k	Panasonic	ERJ-3EKF4701V	Resistor
R15	1	2.2k	ROHM	MCR03EZPFX2201	Resistor
R16, R20	2	100k	Panasonic	ERJ-3EKF1003V	Resistor
R17	1	200k	Panasonic	ERJ-3EKF2003V	Resistor
R18	1	3.92k	Panasonic	ERJ-3EKF3921V	Resistor
R21, R22	2	2.21k	Panasonic	ERJ-3EKF2211V	Resistor
R33, R34, R44, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58	16	0R	Panasonic	ERJ-2GE0R0X	Resistor
R45	1	0R	NIC Components	NRC06Z0TRF	Resistor
R59	1	2k	Panasonic	ERJ-3EKF2001V	Resistor
S1, S2	2	TACT SPST	C&K Components	KSR231GLFS	Switch
SCR1, SCR2, SCR3, SCR4	4	Phillips Screw 1/4"	Keystone Electronics	9900	
STANDOFF1, STANDOFF2, STANDOFF3, STANDOFF4	4	1/4" Standoff Nylon	Keystone Electronics	1902A	
TP1, TP3	2	TP LOOP Red	Keystone	5010	Test Point
TP2, TP4	2	TP LOOP Black	Keystone	5011	Test Point
U1	1	PIC24FJ256GB106	Microchip	PIC24FJ256GB106T-IPT	PIC24F
U2	1	25LC256	Microchip	25LC256T-5/SN	EEPROM SPI
U3	1	VBUS054B-HS3-GS08	Vishay Semiconductor Diodes Division	VBUS054B-HS3-GS08	
U4	1	110-91-320-41-001	Mill-Max	110-99-320-41-001	Connector
U5	1	LM340MP-5.0	National Semiconductor	LM340MP-5.0	LDO
U6	1	RN4020	Microchip Technology	RN4020-V/RM	
U7, U8	2	SN74LVC1T45DCKR	Texas Instruments	SN74LVC1T45DCKR	
U16	1	MCP6561	Microchip	MCP6561T-E/OT	OPAMP
Y1	1	12MHz	Abracron	ABLS-12.000MHZ-B2-T	Crystal
	148				
		Notes			