P12

5V

1
2 reset
3 sck
4 miso
5 mosi
6

ISP

GND

PPM P3
5V   1
     2
     3
GND Header 1X3

5V
C13
22uF
GND

5V R5
    10K reset

C8
27pF

Y1
12Mhz

C7
27pF

C21

VDC   1
Data-   2 5V
           3
NC   4
GND   5

mini USB

5V
R4
1K5

GND

Z1
3V6

Z2
3V6

GND

R2
68R

R3
68R

U2   5V
1 PA2/-RESET   VCC   20
2 PD0/RXD   PB7/SCL/PCINT7   19 sck
3 PD1/TXD   PB6/MISO/PCINT6   18 miso
4 PA1/XTAL2   PB5/MOSI/PCINT5   17 mosi
5 PA0/XTAL1   PB4/OC1B/PCINT4   16
6 PD2/CKOUT/XCK/INT0 PB3/OC1A/PCINT3 15
7 PD3/INT1   PB2/OC0A/PCINT2   14
8 PD4/T0   PB1/AIN1/PCINT1   13
9 PD5/OC0B/T1 PB0/AIN0/PCINT0   12
10 GND   PD6/ICP   11

GND ATTiny2313

R6
10K PPM

C6 5V
100nF
GND

D1
GREEN   R1
         390R   5V
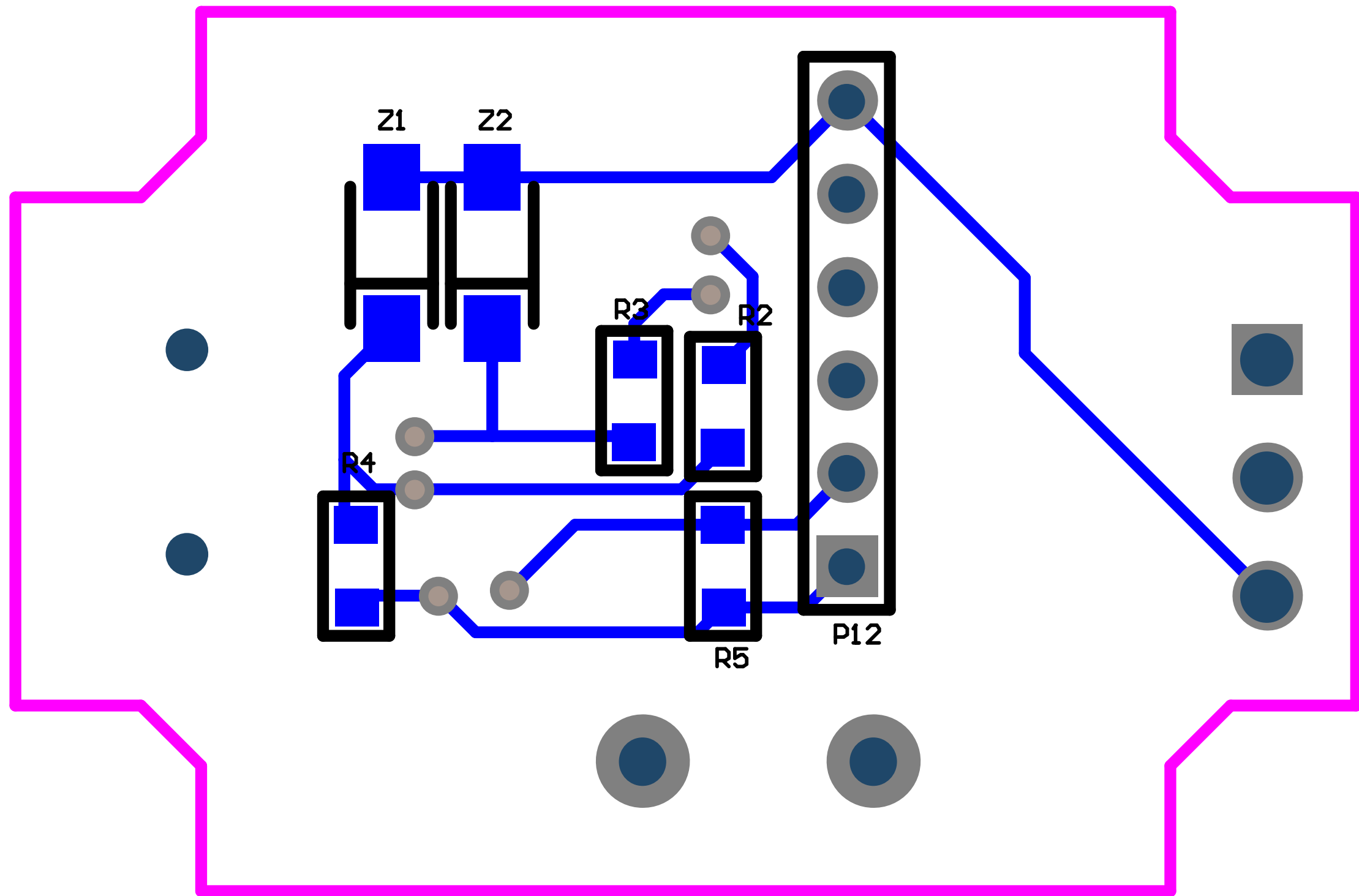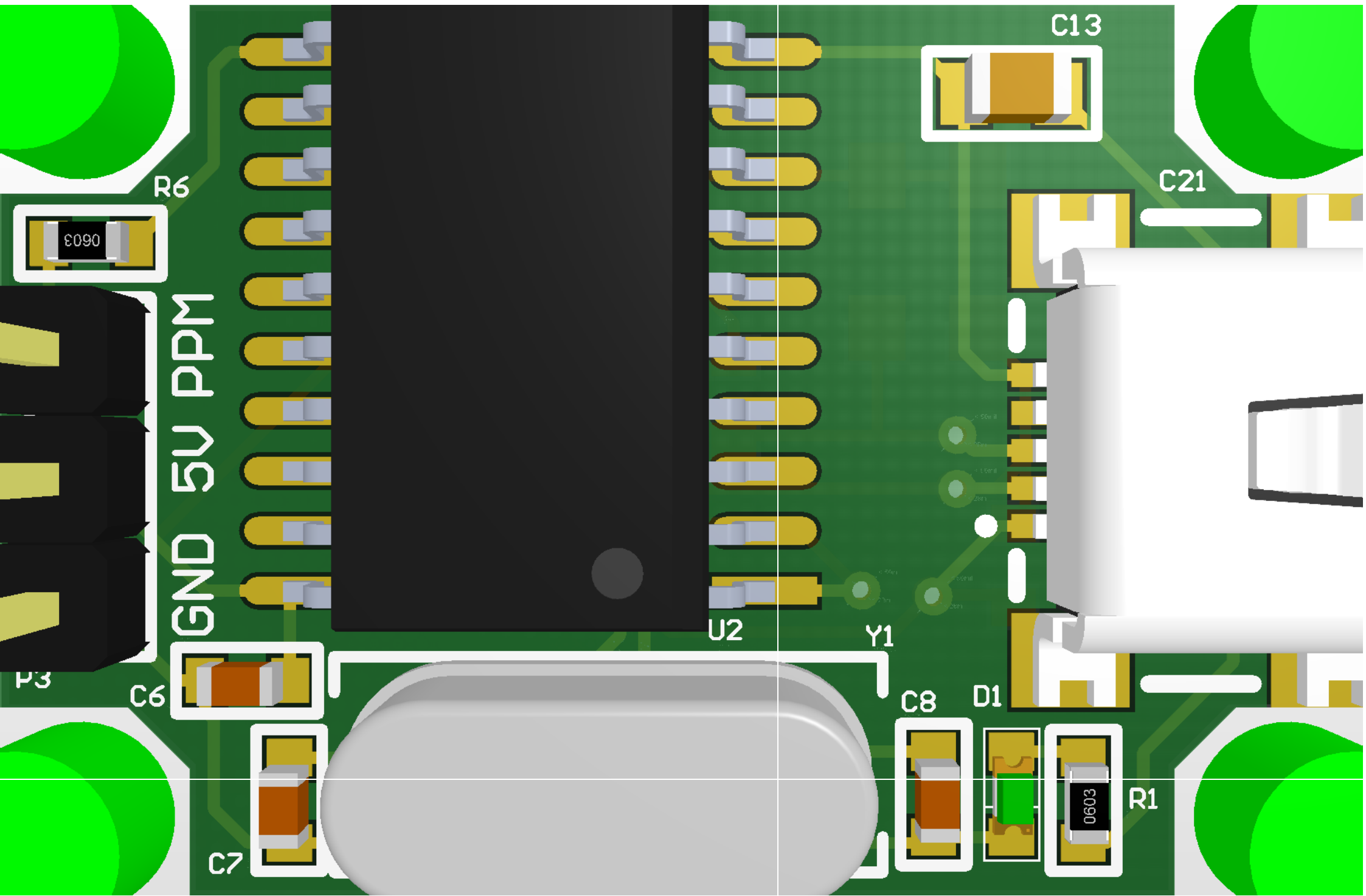GND

Title

Size Number   Revision
A4

Date: 2019.04.29.   Sheet   of
File: C:\SANYI\..\PPM_USB.SchDoc Drawn By:

C13

C21

R6

GND 5V PPM

P3

C6

U2

Y1

C8

D1

C7

R1

Z1 Z2

R3 R2

R4

R5 P12

R6

0603

5V PPM

GND

P3

C6

C7

U2

Y1

C8

D1

C13

C21

R1

0603

Z1 Z2

R3 R2

R4

R5

P12
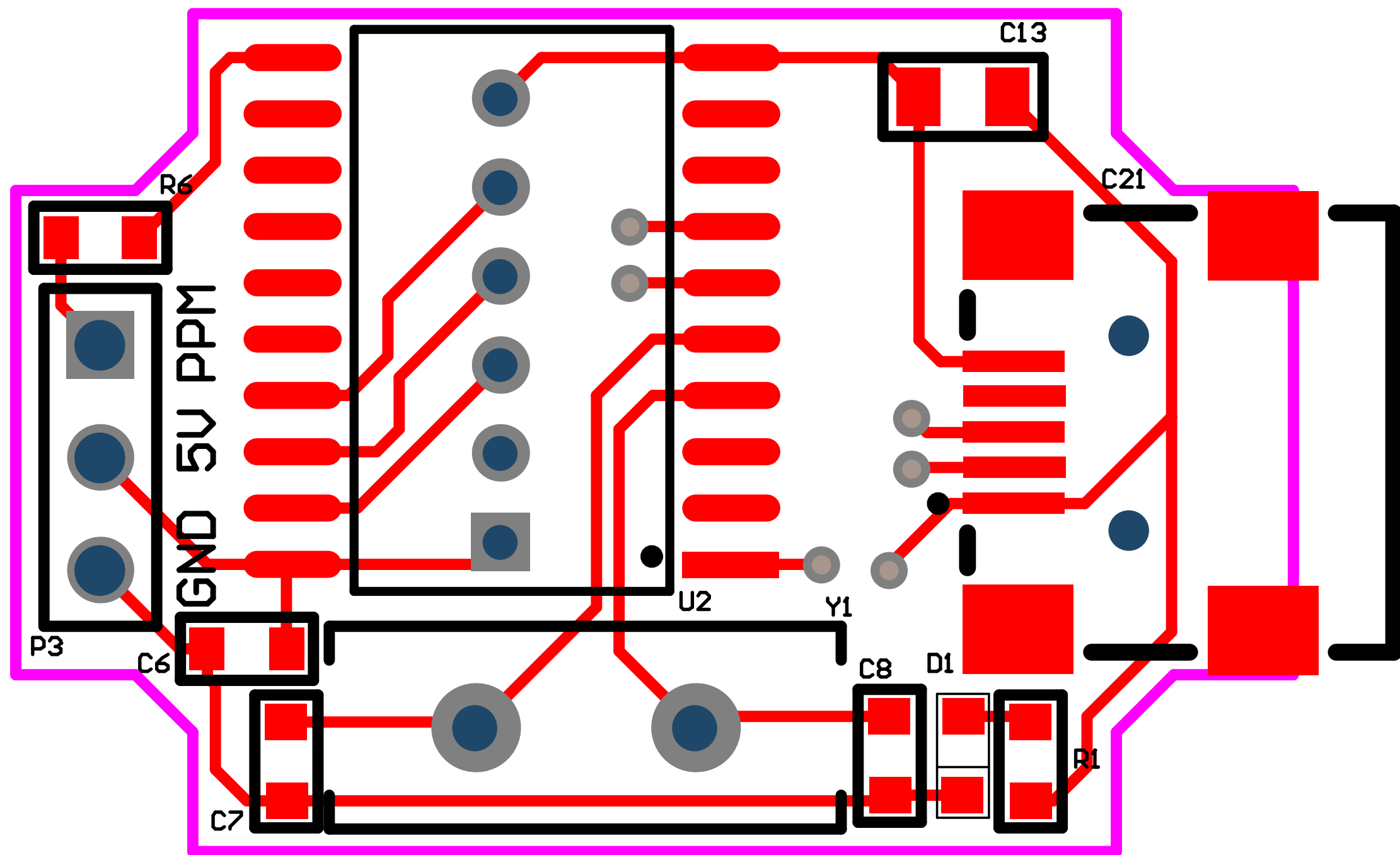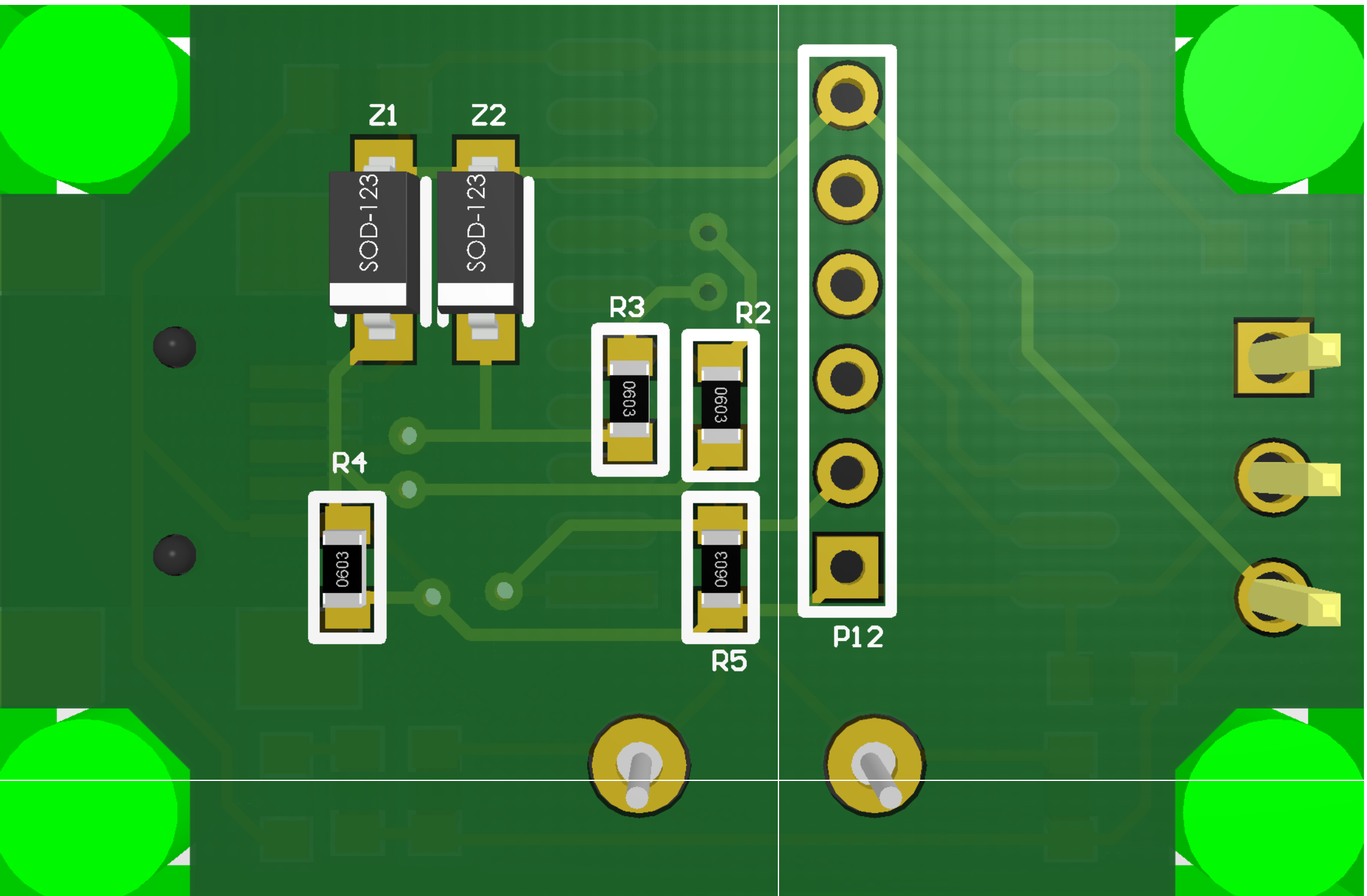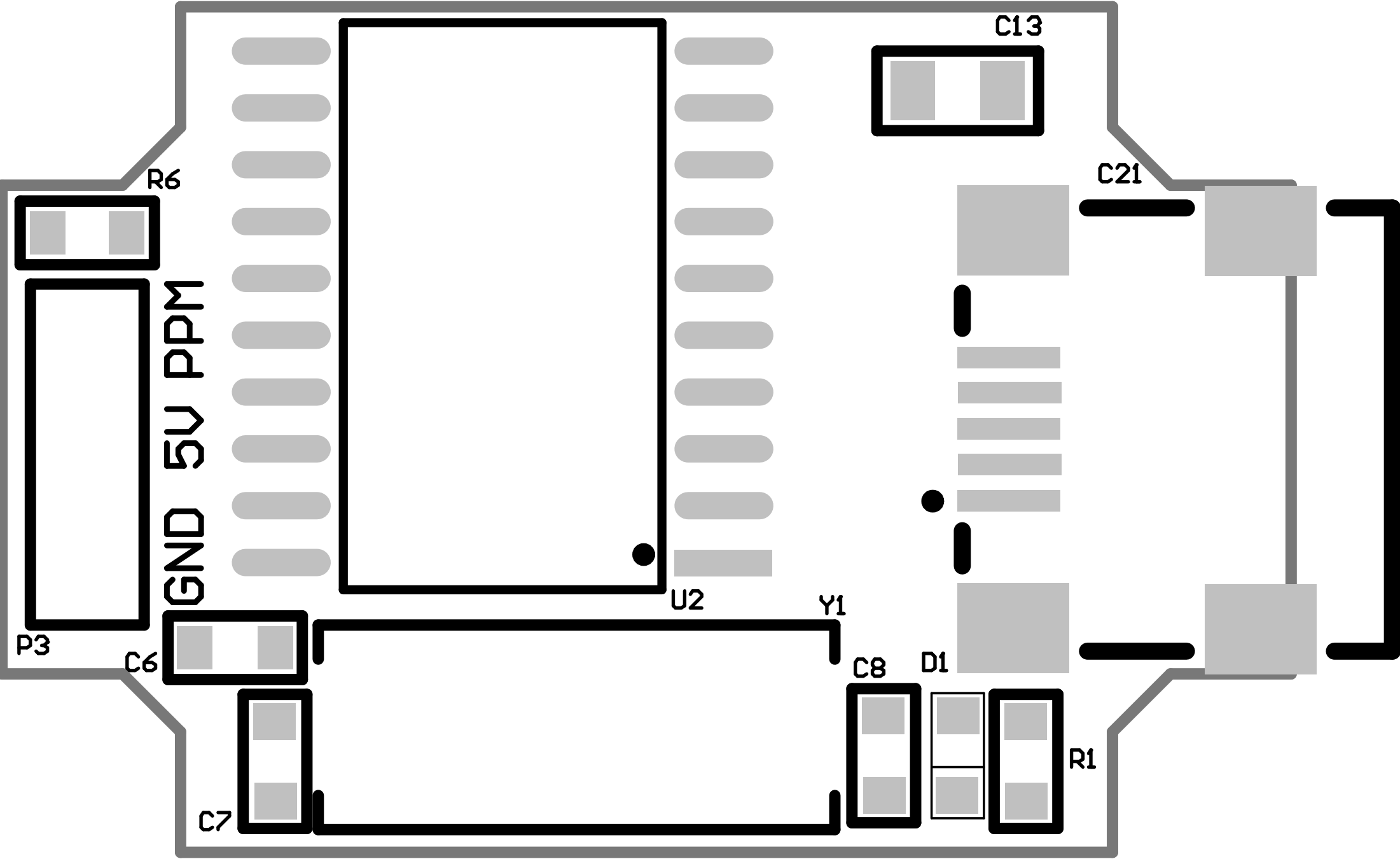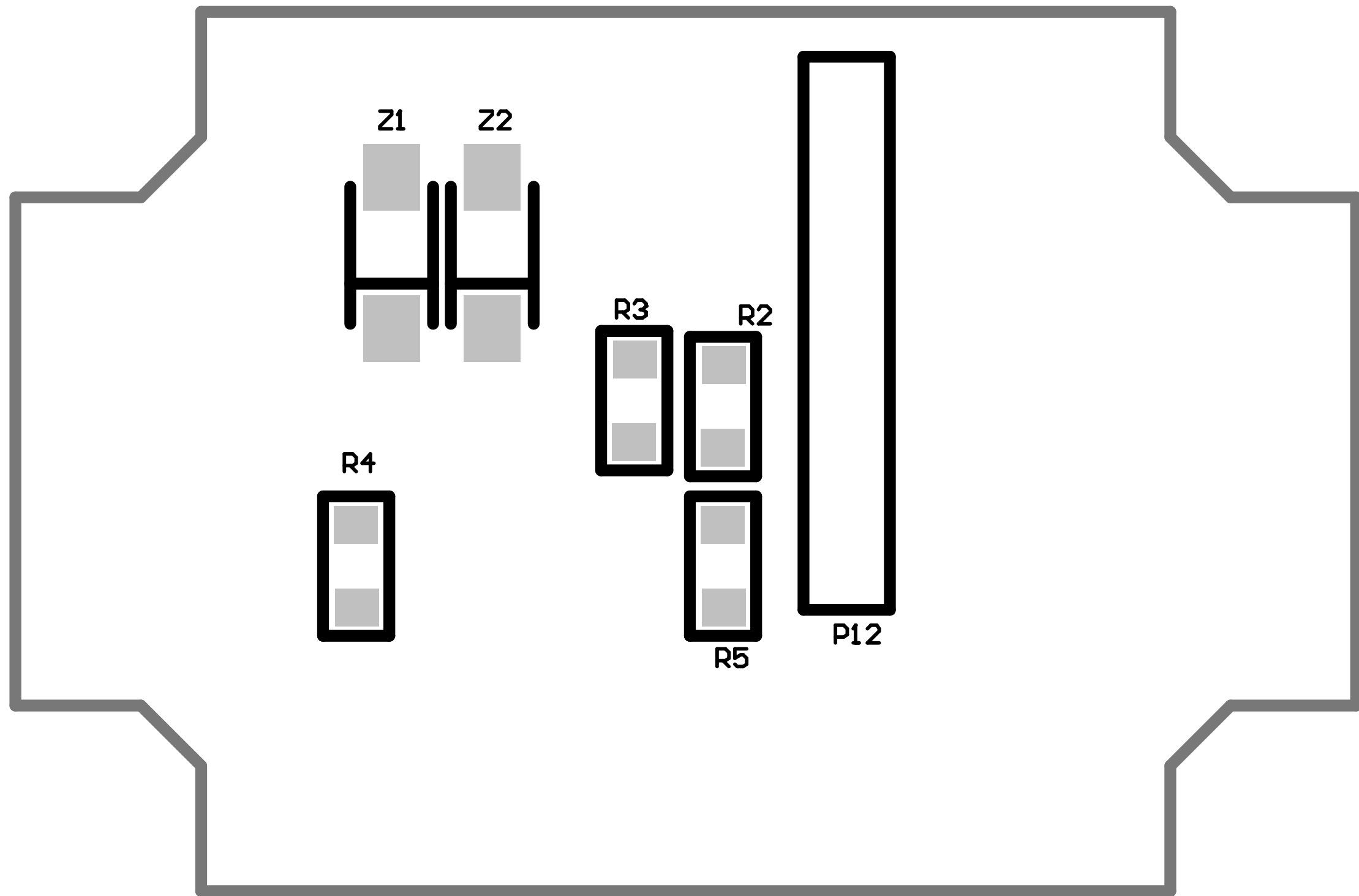
Comment	Description	Designator	Footprint	LibRef	Order info	Quantity
100nF	Capacitor	C6	FP_0603_CAP_080	CAP	[82-01-25]	1
27pF	Capacitor	C7, C8	FP_0603_CAP_080	CAP	TODO	2
22uF	Capacitor	C13	FP_0805_CAP_085	CAP	[82-08-19]	1
mini USB	mini USB	C21	USB/SM0.8-6H5	mini USB	43-16-44	1
GREEN	Typical LED	D1	FP_0603_LED_G	LED_G	95-03-09	1
390R	Resistor	R1	FP_0603_RES	RES	81-10-21	1
68R	Resistor	R2, R3	FP_0603_RES	RES	TODO	2
1K5	Resistor	R4	FP_0603_RES	RES	TODO	1
10K	Resistor	R5, R6	FP_0603_RES	RES	TODO	2
ATTiny2313		U2	DIGITAL_SOIC20W	ATTiny2313	[89-21-91]	1
12Mhz	Quartz	Y1	FP_CRYSTAL_HC49_TH	XTAL		1
3V6	Zener Diode	Z1, Z2	FP_SOD-123	ZENER		2