



Tap Point Device

Board Schematics

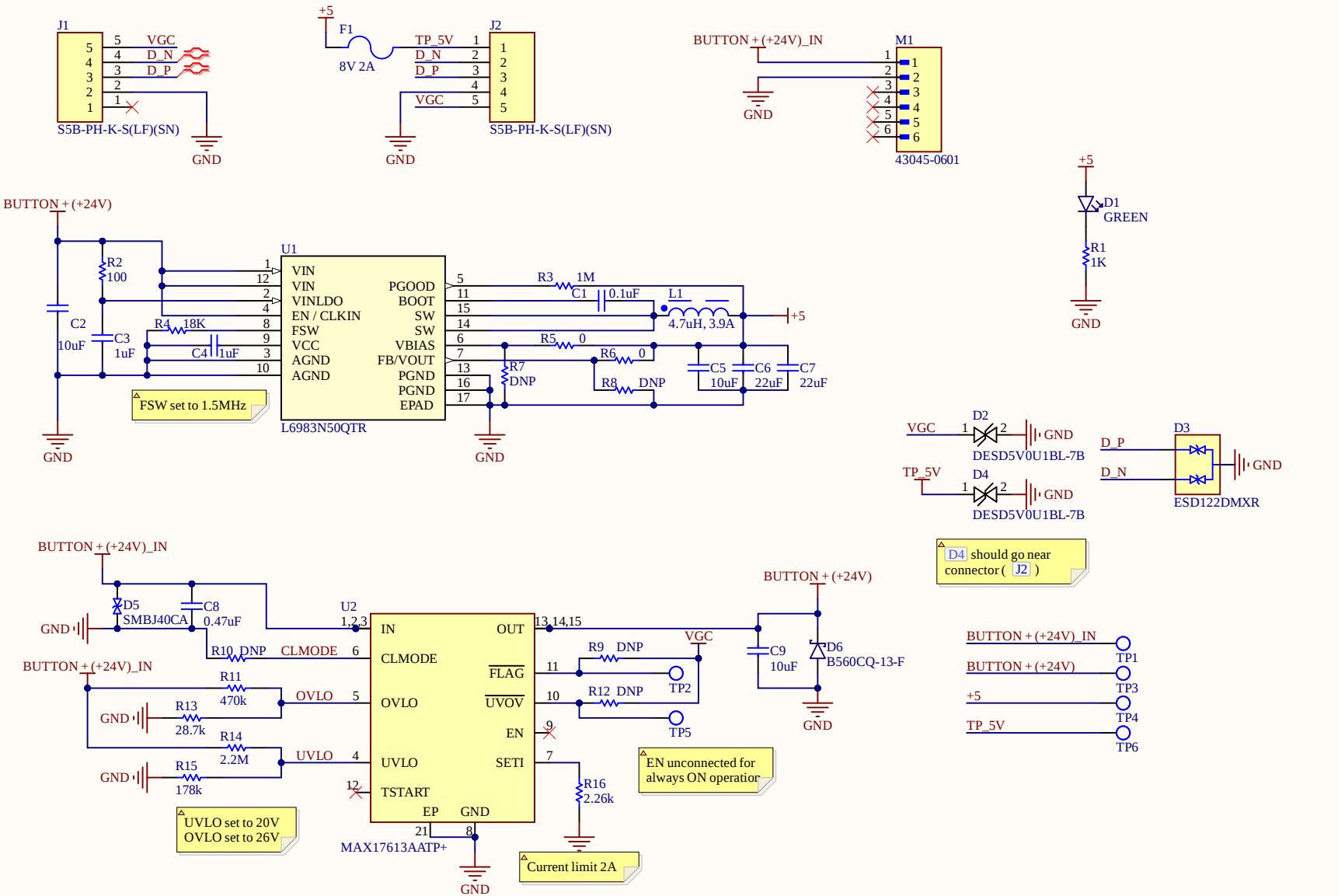


MK - Power Injector.SchDoc

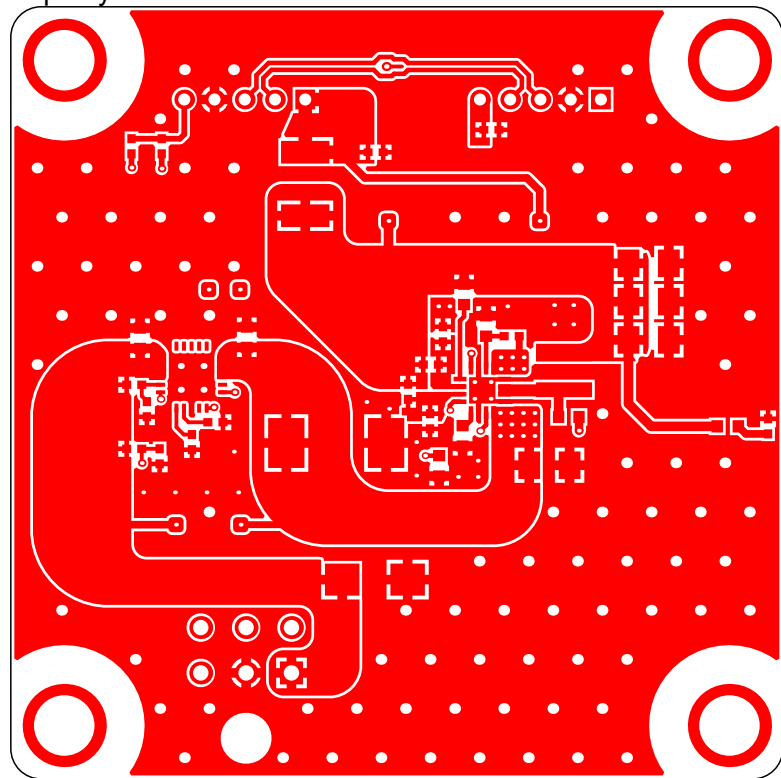
RFID IN

TO TAP POINT

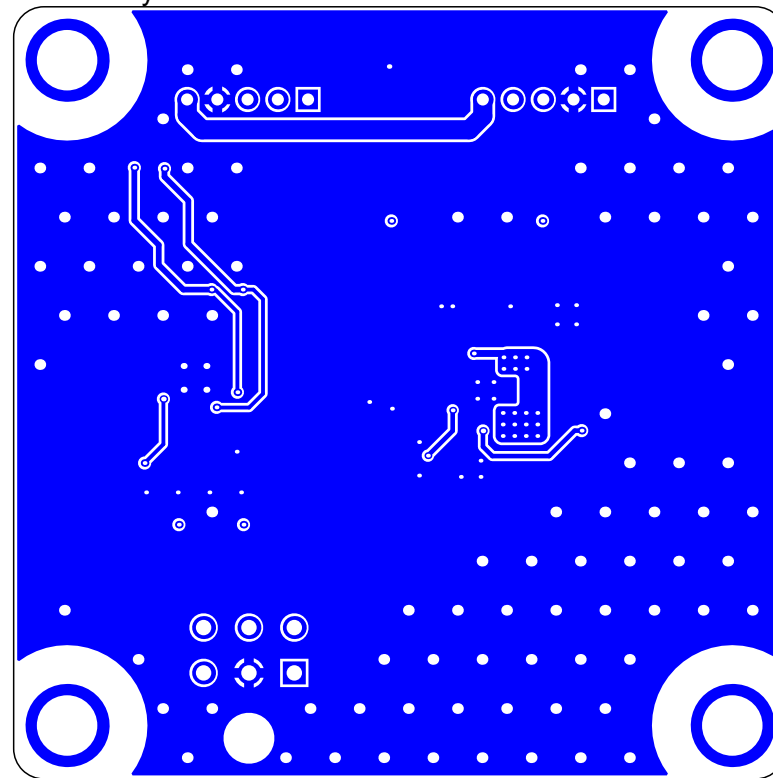
PB IN



Top Layer

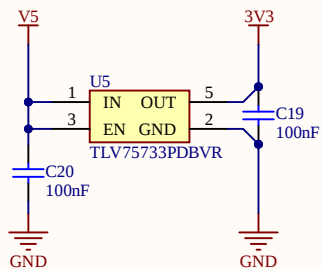


Bottom Layer

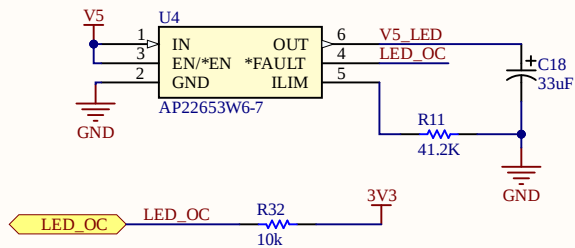


Power

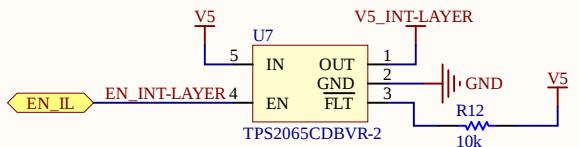
3V3 Supply



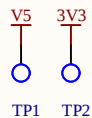
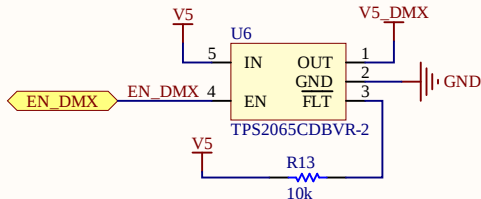
LED Current Limiting



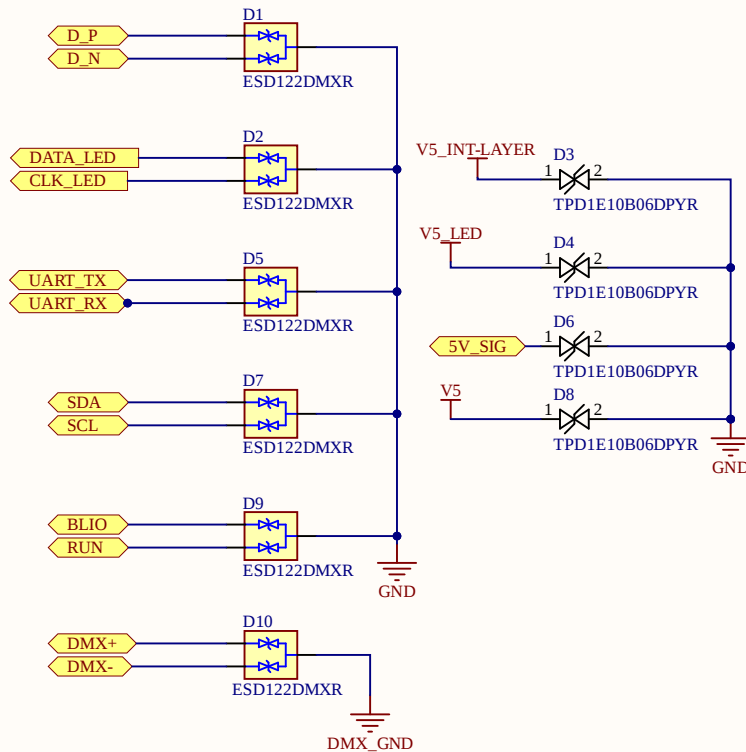
Integration Layer Power Switch



DMX Power Switch



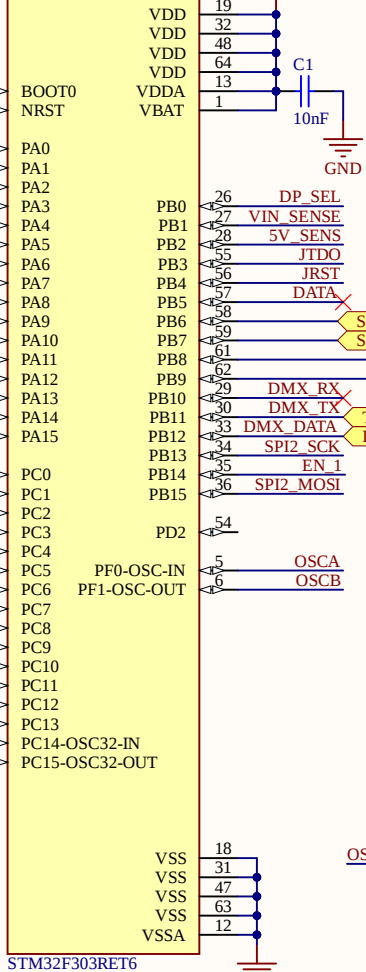
TVS Diodes



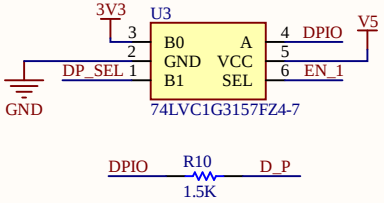
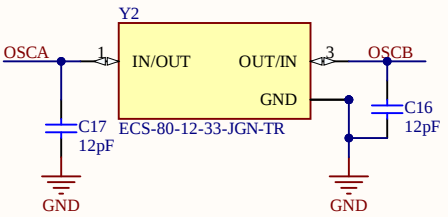
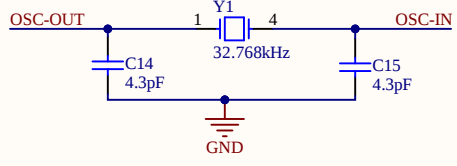
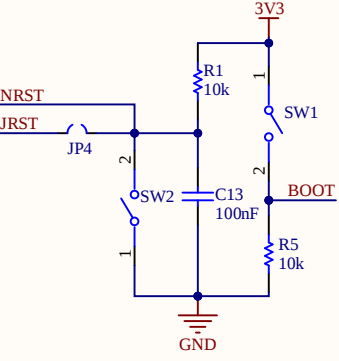
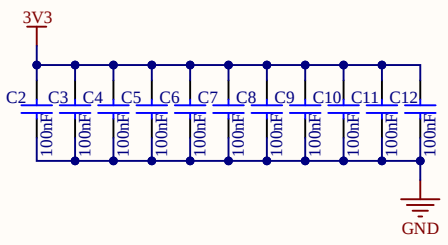
Control

STM32

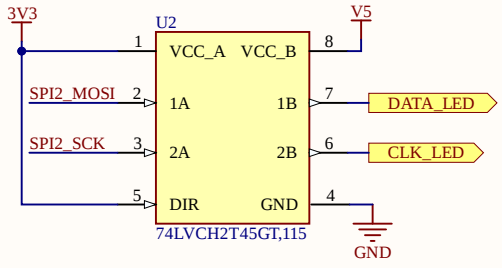
U1



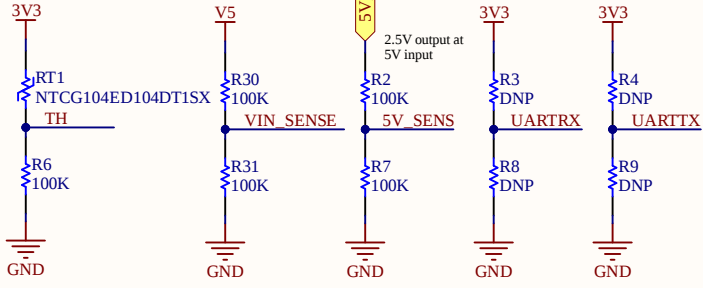
STM32F303RET6



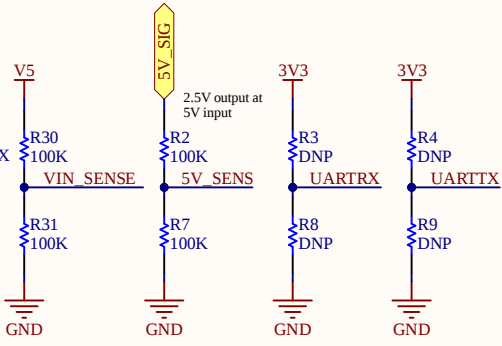
APA102 LEDs Level Shift



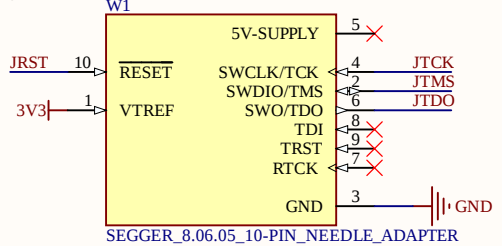
NTC Thermistor



VCC Signal



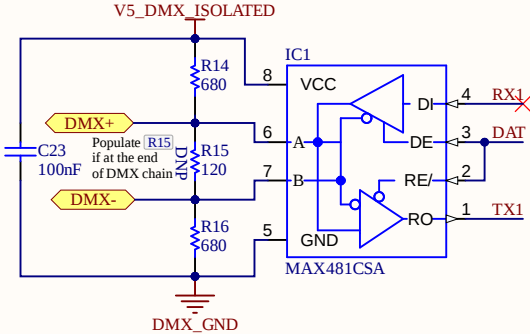
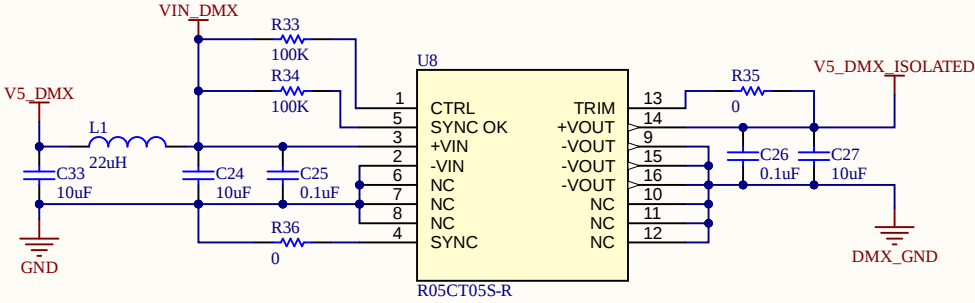
SWD



DMX

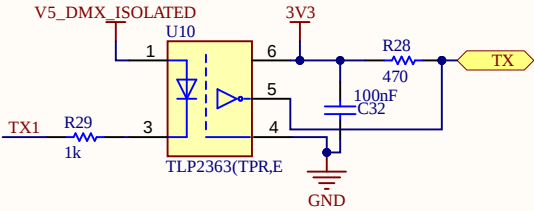
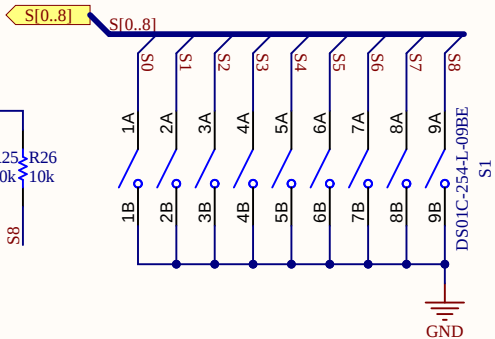
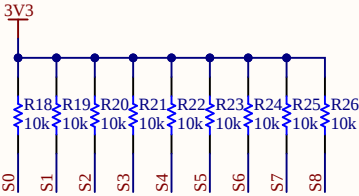
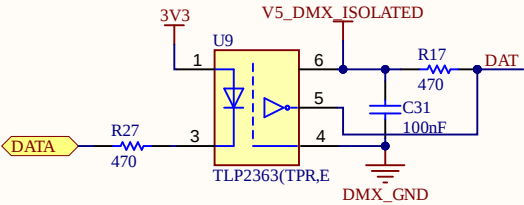
DC-DC Power Isolator

Transceiver



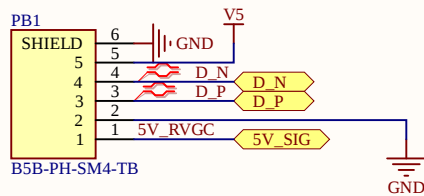
Optoisolators

DIP Switch

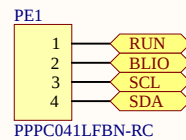


Connectors

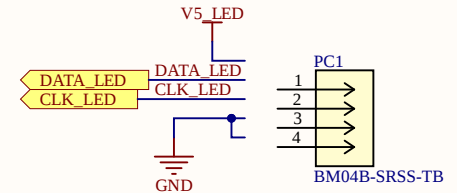
USB Input
(Tap Point Cable)



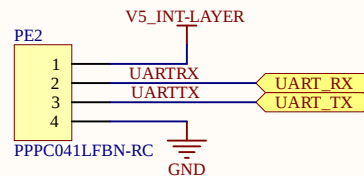
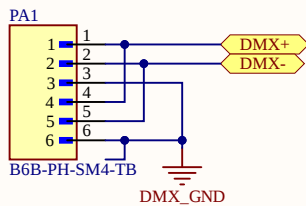
Integration Layer



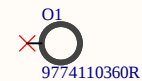
LED



DMX



Stand-Offs



A

B

C

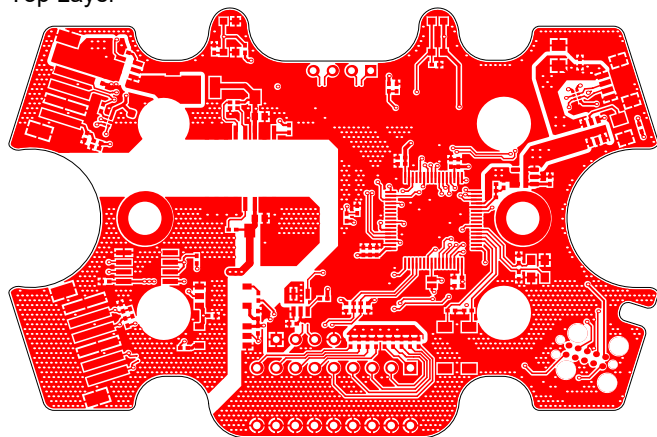
D

E

F

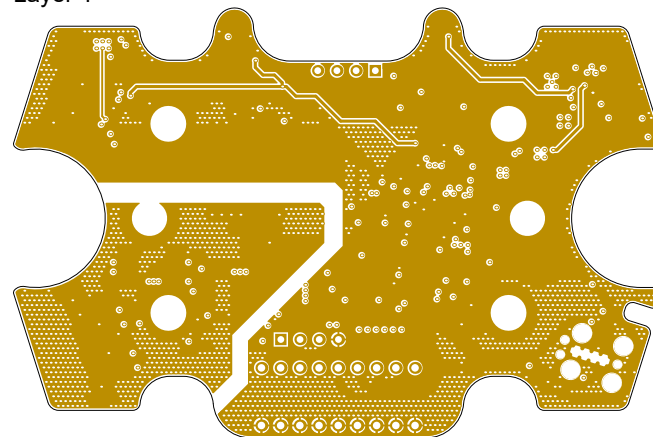
1

Top Layer



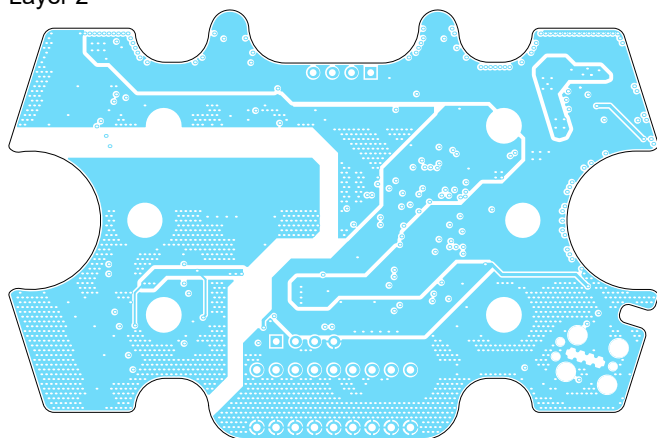
2

Layer 1



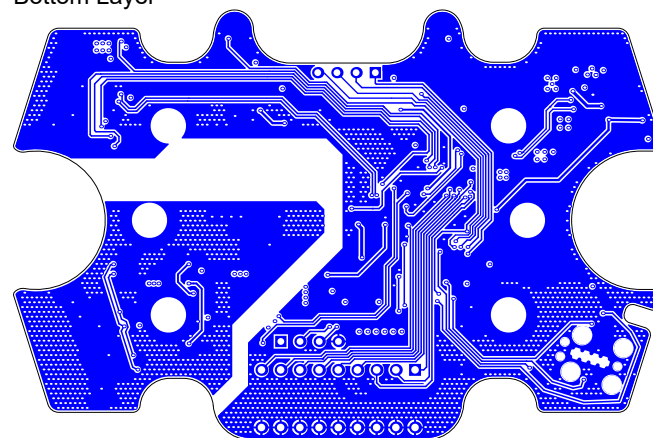
3

Layer 2



4

Bottom Layer



A

B

C

D

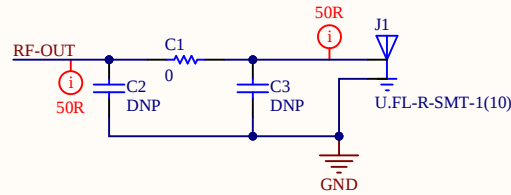
E

F

Comm Header



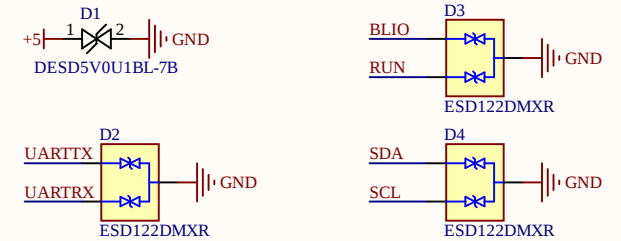
Antenna Connection



Stand-Offs



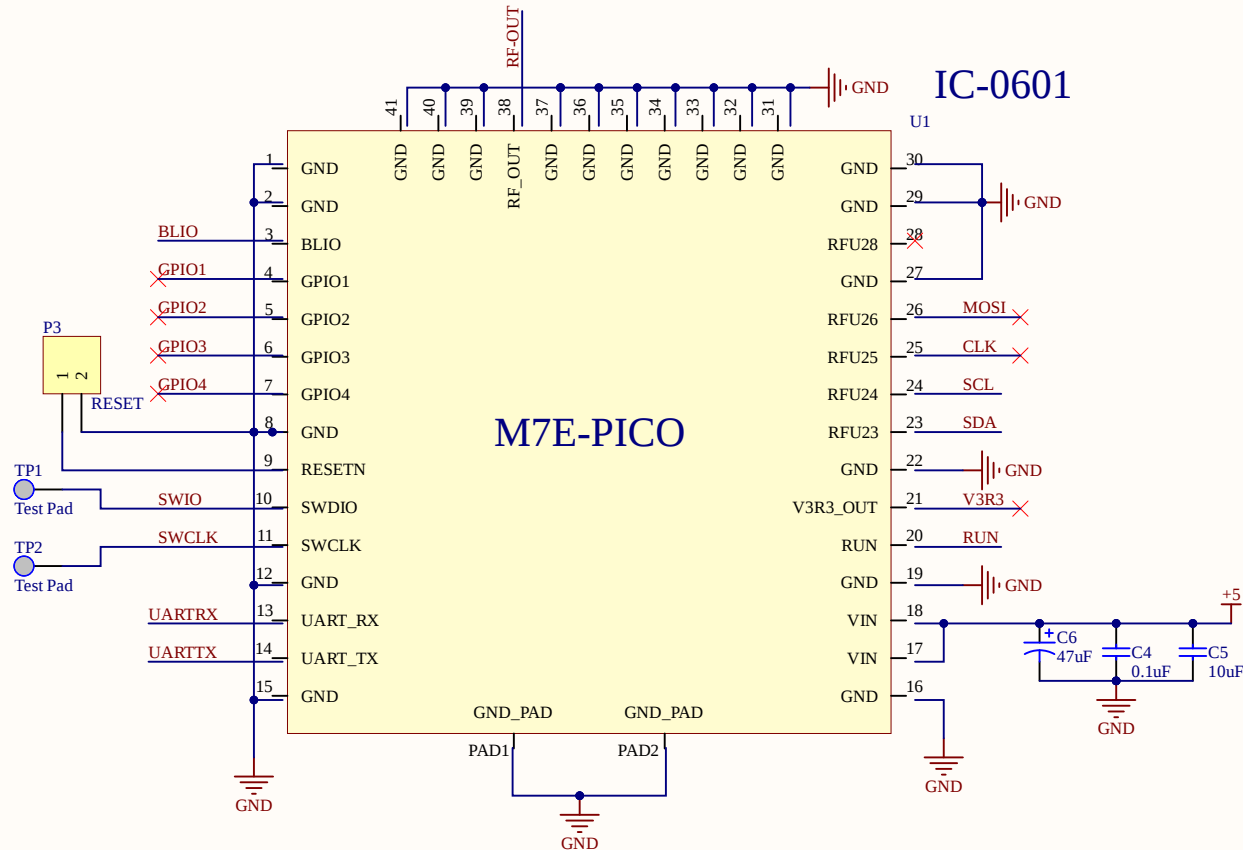
TVS Protection



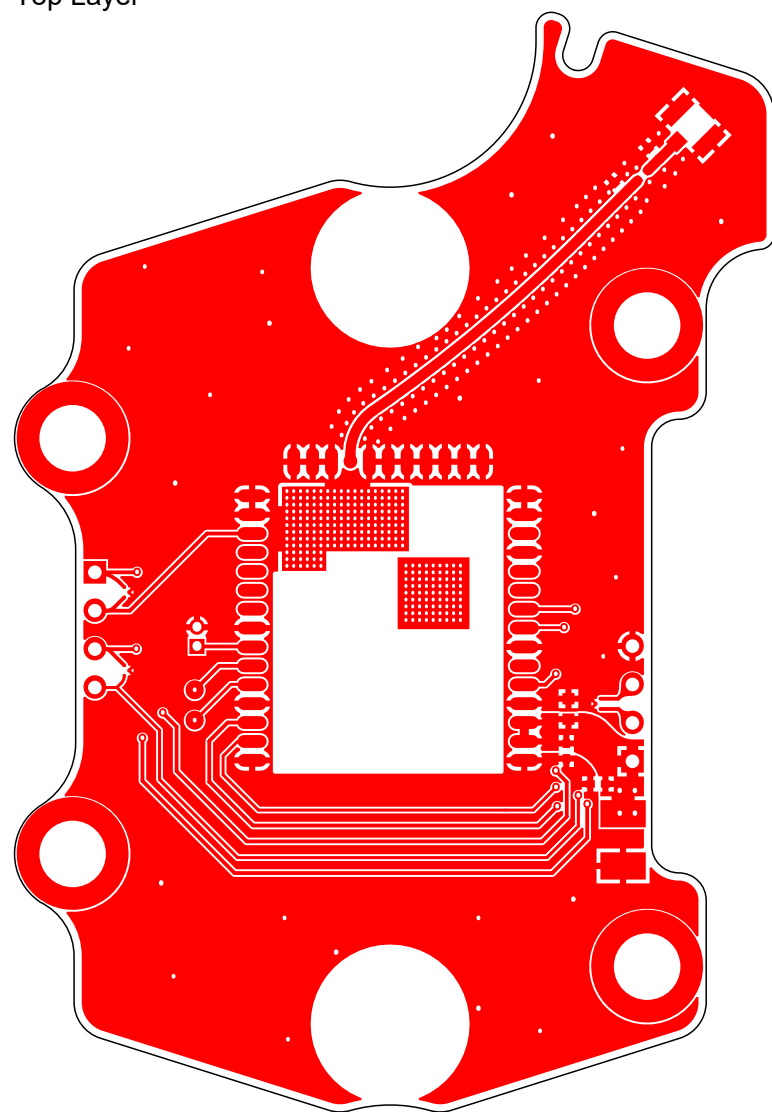
PCB shall be 62 mil thick / 1 oz. copper
Antenna impedance approx. 50Ω at 26.8 mil trace width
6 mil clearance to GND plane

M7E-PICO

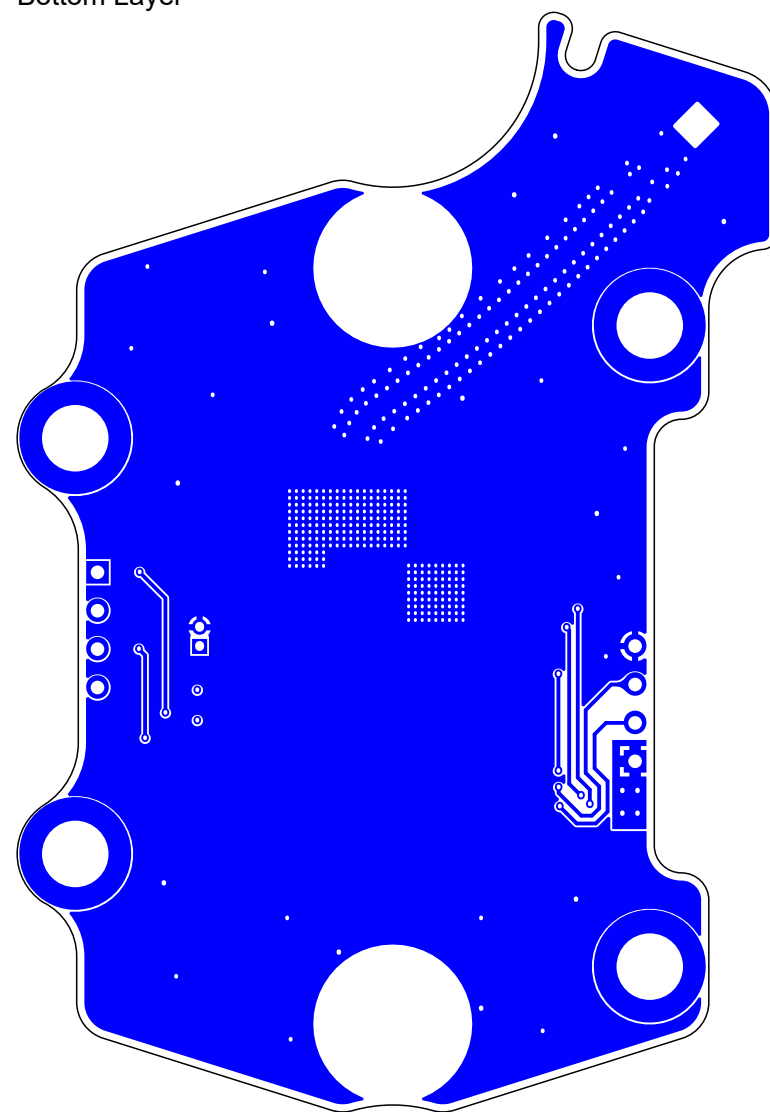
IC-0601



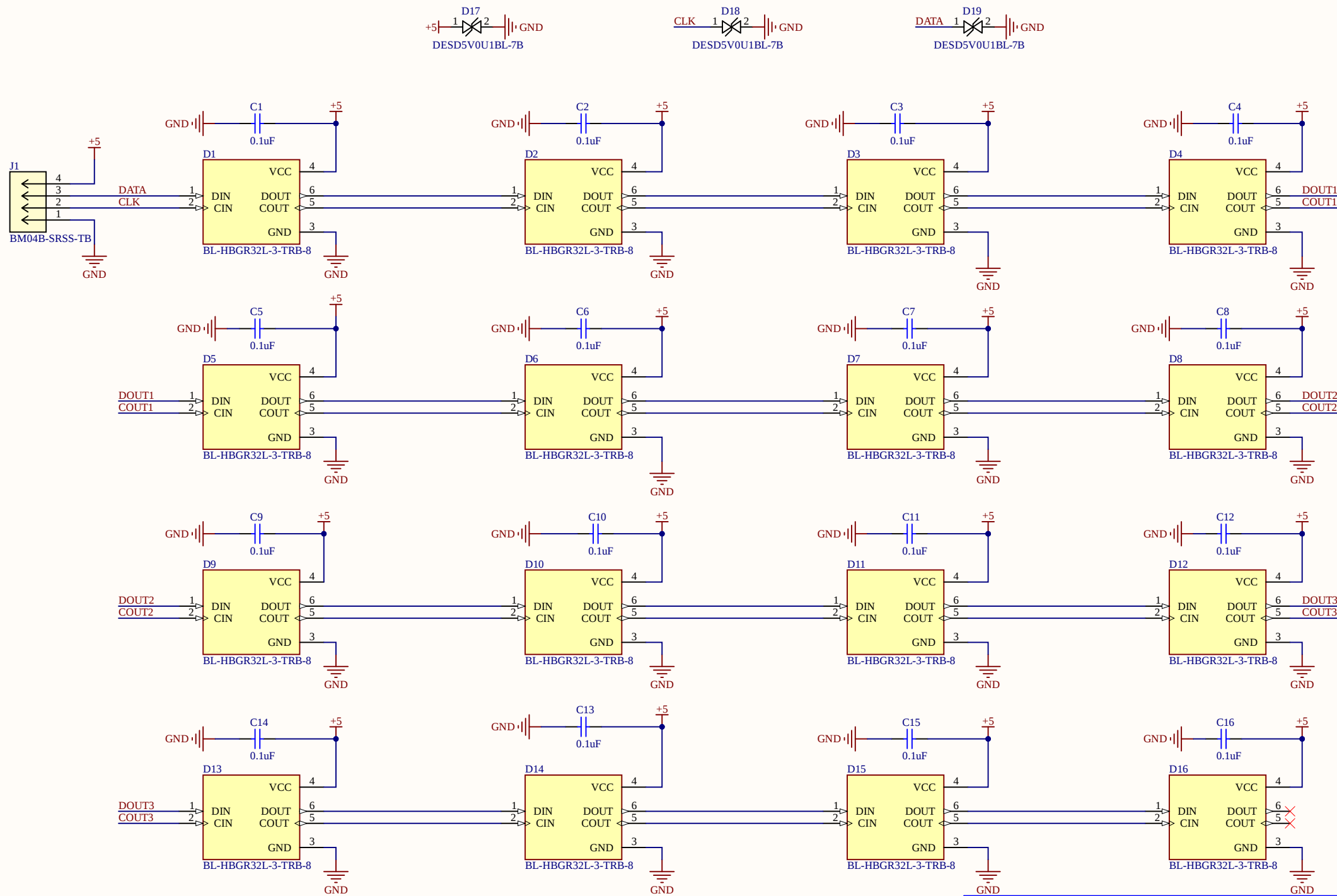
Top Layer



Bottom Layer



Tap Point - MK LED Ring.SchDoc



Cannot open file D:\Users\Public\Documents\Altium\Projects\Logo-Jaycon-SW	
Project: Tap Point - MK LED Ring revD.PrjPcb	Revision: D
Date: 3/27/2025	Sheet 1 of 1

A

B

C

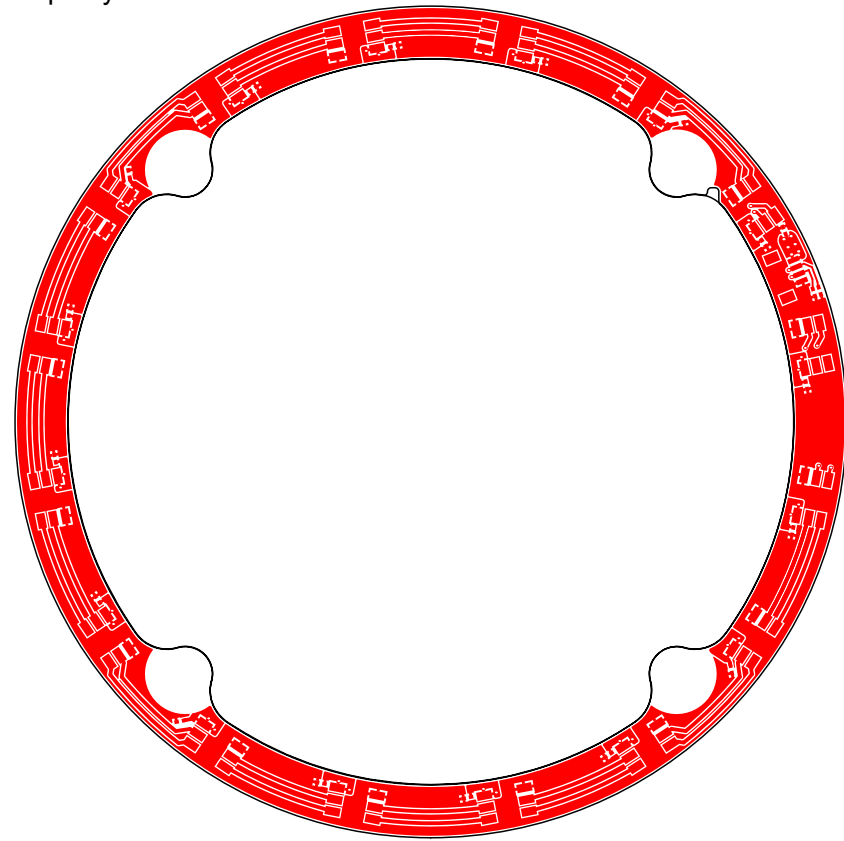
D

E

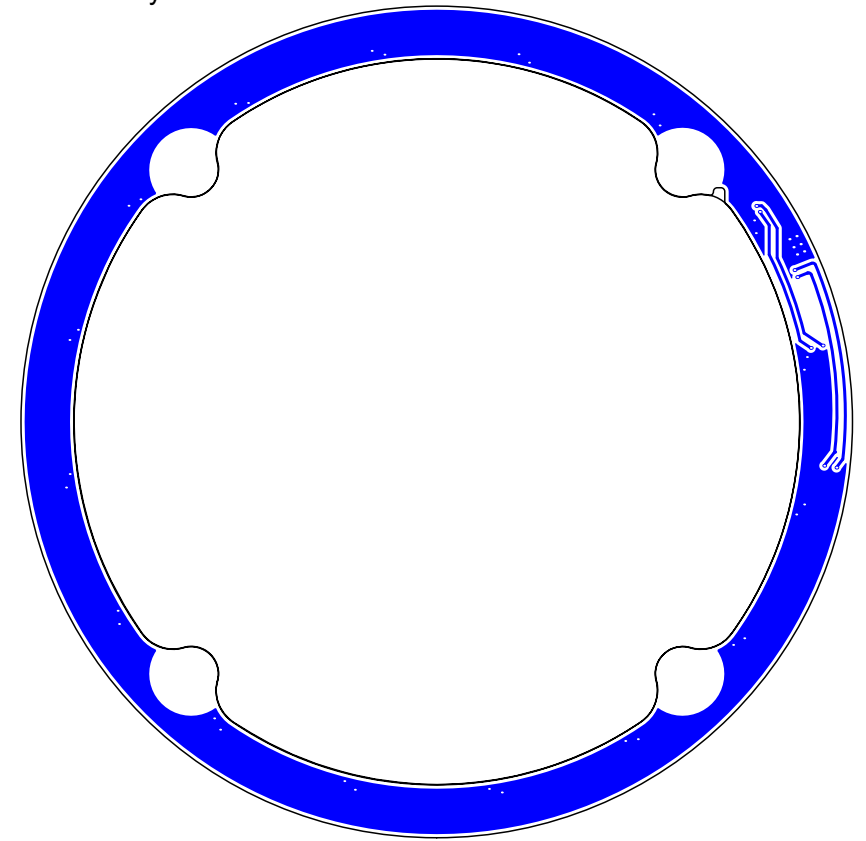
1

1

Top Layer



Bottom Layer



2

2

3

3

4

4

A

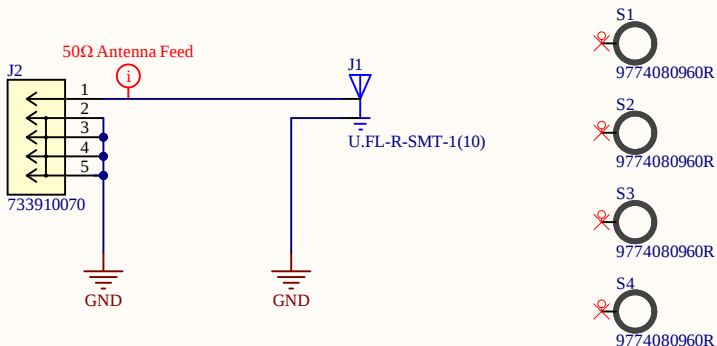
B

C

D

E

Antenna Connector.SchDoc



PCB shall be 62 mil thick / 1 oz. copper
 Antenna impedance approx. 50Ω at 26.8 mil trace width
 6 mil clearance to GND plane

JAYCON 2880 Cornerstone Park Dr. NE Suite 111 Palm Bay, FL 32909 +1 (321) 879-8868	PROJECT Tap Point SMA Antenna Adapter revB.PrjPcb		
	JAYCON DRAWING NO. EL-1000141		
	REV. B		
	DATE -	DRAFT DATE 5/29/2025	SHEET 1 OF 1

