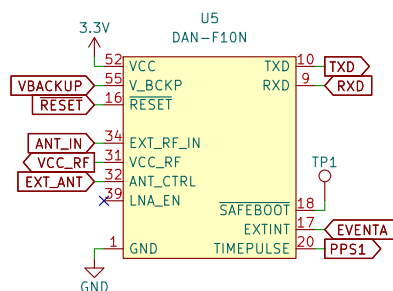
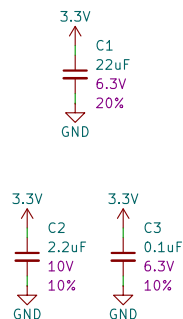
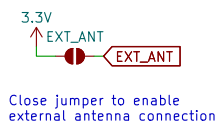


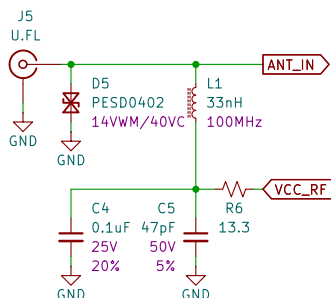
GNSS – DAN-F10N



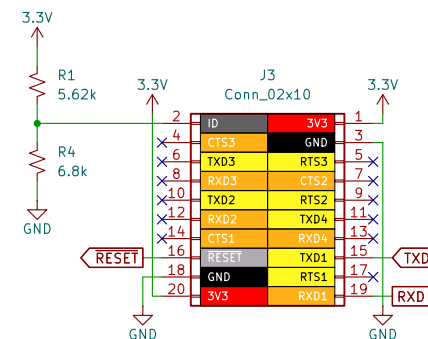
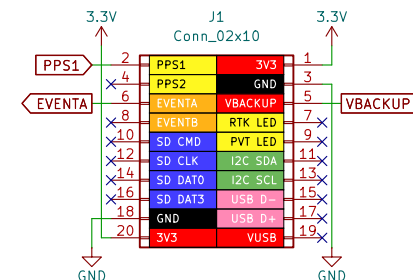
External Antenna



Microstrip (Coplanar Single Ended) 50Ω Calculation:
<https://lccpcb.com/pcb-impedance-calculator>
 Board thickness: 1.6mm, Layers: 4, Er: 4.4 (7628 Prepreg)
 Dielectric Thickness (Layer 1 to 2): 0.26mm/0.2104mm (JLC7628)
 Copper Thickness (1oz outer / 0.5oz inner): 1.38mil/0.035mm
 Polygon Isolation: 7mil/0.1778mm
 Trace Width: 11.1mil/0.2819mm



Connectors



Legend: GNSS Flex

Power +	GNSS Out
Power GND	GNSS In
I2C	microSD
USB	ID (0-3.3V)
RMII	Aux



SPARKFUN



Designed by: N. Seidle

SparkFun Electronics

Sheet: /

File: SparkFun_GNSS_Flex_Module_DAN-F10N.kicad_sch

Title: SparkFun GNSS Flex Module – DAN-F10N

Size: USLetter Date: 2025-04-08

KiCad E.D.A. 9.0.2

Rev: v10

Id: 1/1