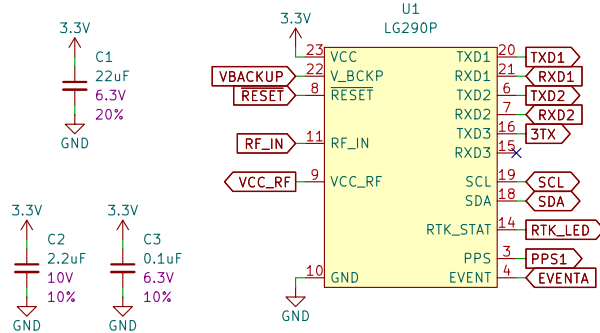
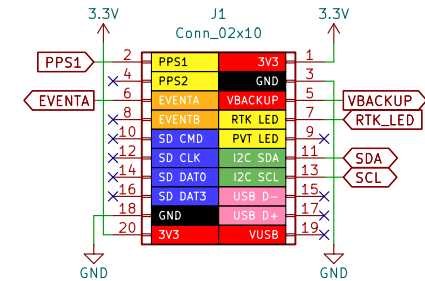


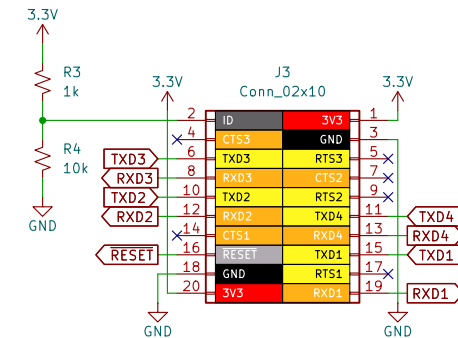
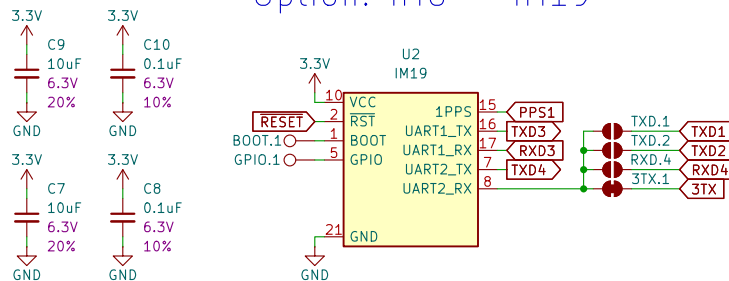
GNSS – LG290P



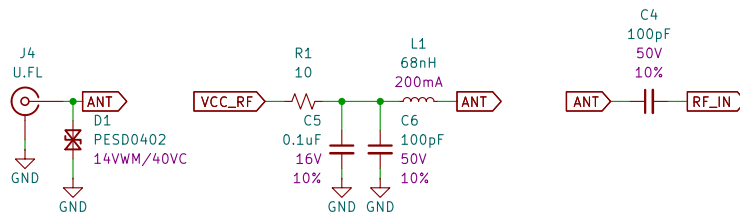
Connectors



Option: IMU – IM19



Antenna



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

Legend: GNSS Flex



SPARKPNT



Designed by: P.C.

SparkFun Electronics

Sheet: /

File: SparkFun_GNSS_Flex_Module_LG290P-Tilt.kicad_sch

Title: SparkFun GNSS Flex Module – LG290P & IM19

Size: USLetter Date: 2025-06-11

KiCad E.D.A. 9.0.2

Rev: v10

Id: 1/1

Microstrip Calculation:
Copper thickness (1oz): 1.4mil/0.035mm
Board thickness: 1.6mm
Dielectric thickness (layer 1 to 2): 0.2mm
Ez: 4.6
Polygon isolation: 6mil/0.152mm
RF Trace Width: 1.3mil/0.035mm
<http://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm>