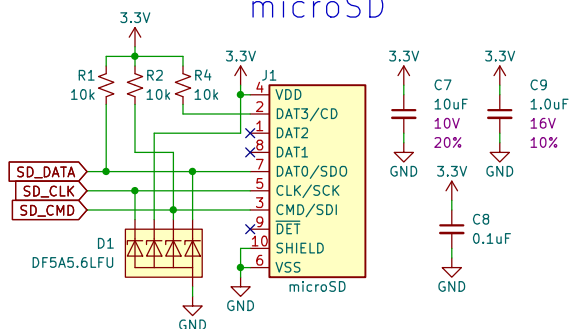


A <= B : DIR = GND
A >= B : DIR = VCCA

File: Connectors.kicad_sch

File: Power.kicad_sch



3.3V

PWR1

R6 4.7k

D2 Red

GND

PVT1

R7 2.2k

D3 Blue

GND

LOG1

R10 330

D4 Green

GND

RTK1

R11 1k

D5 White

GND

PPS1

R12 2.2k

D6 Yellow

GND

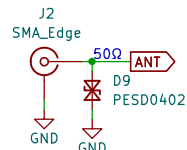
Open these jumpers to disable the LEDs



KiCad E.D.A. 9.0.2

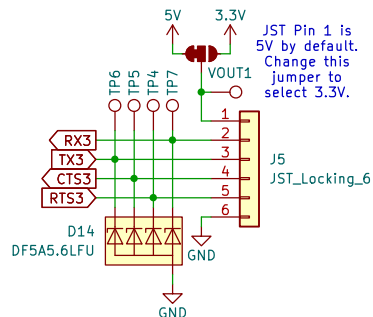
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GNSS Antenna

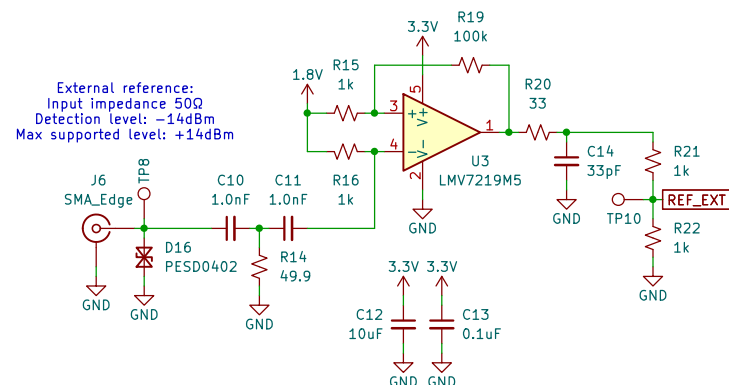


Microstrip (Coplanar Single Ended) 50Ω Calculation:
<https://lcpb.com/pcb-impedance-calculator>
 Board thickness: 1.6mm. Layers: 4. Er: 4.4 (7628 Prepreg)
 Dielectric Thickness (Layer 1 to 2): 8.28mil/0.2104mm (JLC7628)
 Copper Thickness (1oz outer / 0.5oz inner): 1.38mil/0.035mm
 Polygon Isolation: 7mil/0.1778mm
 Trace Width: 11.1mil/0.2819mm

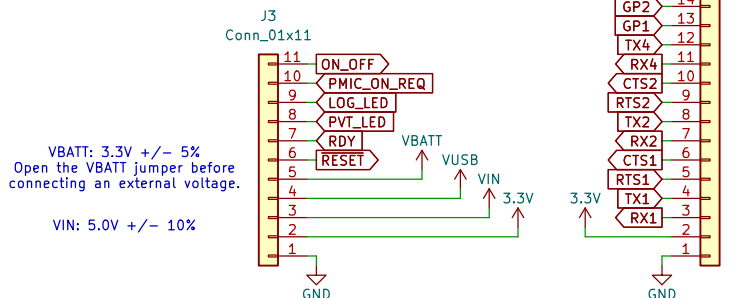
6-pin JST GH Connector



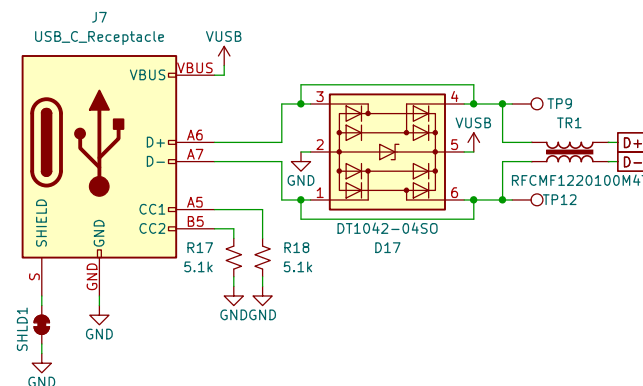
External Reference (10MHz)



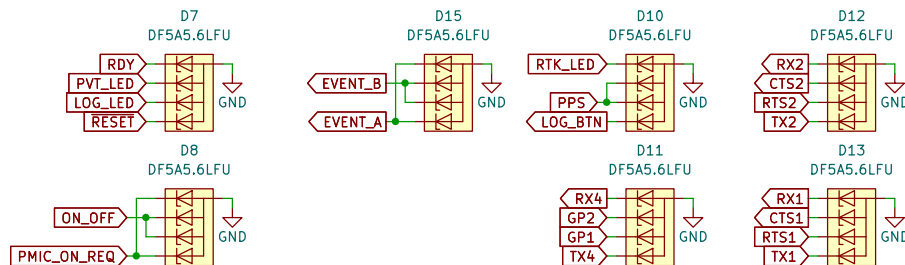
Breakouts



USB



ESD Protection



USB Track Impedance: Coplanar Differential Pair @ 90Ω
<https://lcpb.com/pcb-impedance-calculator>
 Board Thickness: 1.6mm. Layers: 4. Er: 4.4 (7628 Prepreg)
 Dielectric Thickness (Layer 1 to 2): 8.28mil/0.21mm (JLC7628)
 Copper Thickness (1oz outer / 0.5oz inner): 1.38mil/0.035mm
 Polygon Isolation: 7mil/0.1778mm
 Trace Spacing: 9.07mil/0.2304mm
 Trace Width: 10.93mil/0.2776mm
 Trace center-to-center: 20.0mil/0.508mm

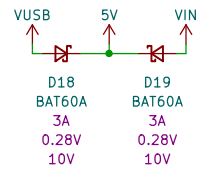
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 File: Connectors.kicad_sch

Title: SparkFun GNSS mosaic-T - Connectors

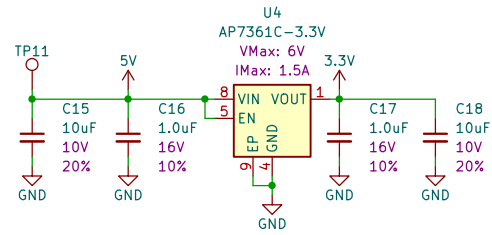
Size: USLetter Date:
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Rev:
 Id: 2/3

Power Mux



Voltage Regulation – AP7361C–3.3V



Sheet: /Power/
File: Power.kicad_sch

Title: SparkFun GNSS mosaic-T – Power

Size: USLetter Date:
KiCad E.D.A. 9.0.2

Rev:
Id: 3/3