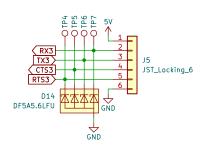
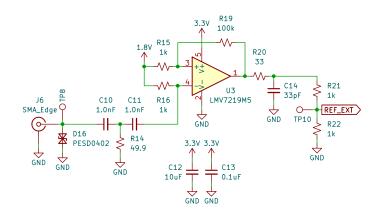


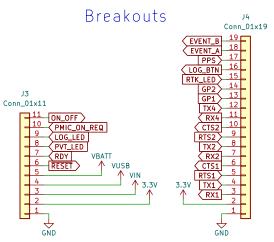
A Microstrip Calculation: Copper Thickness (1oz): 1.4mil/0.035mm Board thickness: 1.6mm Dielectric thickness (layer 1 to 2): 0.2mm Er: 4.6 Polygon Isolation: 6mil/0.1524mm RF Trace Width: 13mil/0.33mm https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm

6-pin JST GH Connector

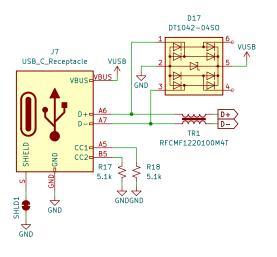


External Reference (10MHz)

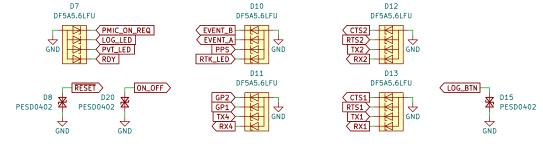




USB



ESD Protection



USB Track Impedance: Differential Pair https://saturnpcb.com/saturn-pcb-toolkit/
Prepreg thickness: 8.3 mil (JLC7628). Er = 4.6
10.5 mil track with 9.5 mil gap (20 mil center to center) = 90 Ohms

Sheet: /Connectors/
File: Connectors.kicad_sch

Title: Connectors

Size: USLetter | Date: Rev:
KiCad E.D.A. 9.0.0 | Id: 2/3

