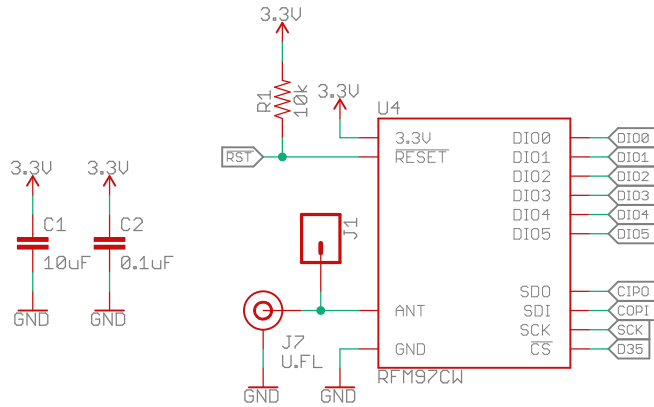


LoRa Radio 18dBm

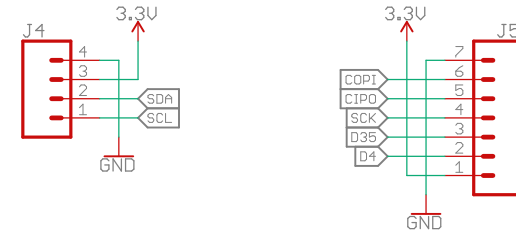


Antenna length (1/4 wave)
915MHz: $3.07'' = 78\text{mm}$

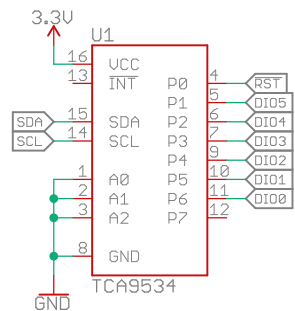
Microstrip Calculations:

Copper Thickness (1oz): 1.4mil/0.035mm
Board thickness: 1.6mm
Dielectric thickness: 1.53mm
Er: 4.5
Polygon Isolation: 4mil/0.1016mm
RF Trace Width: 29.1mil/0.74mm
<https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm>

PTH

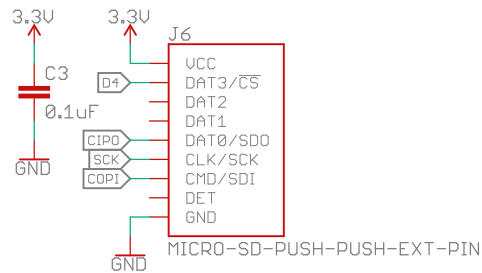


I2C GPIO Expander



I2C Address (Unshifted): 0x20

microSD Socket



SPARK X


open hardware

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TITLE: SparkFun_AGT_Radio_Board

Design by:

REV:
x01

Date: 12/07/2021 17:37

Sheet: 1/1