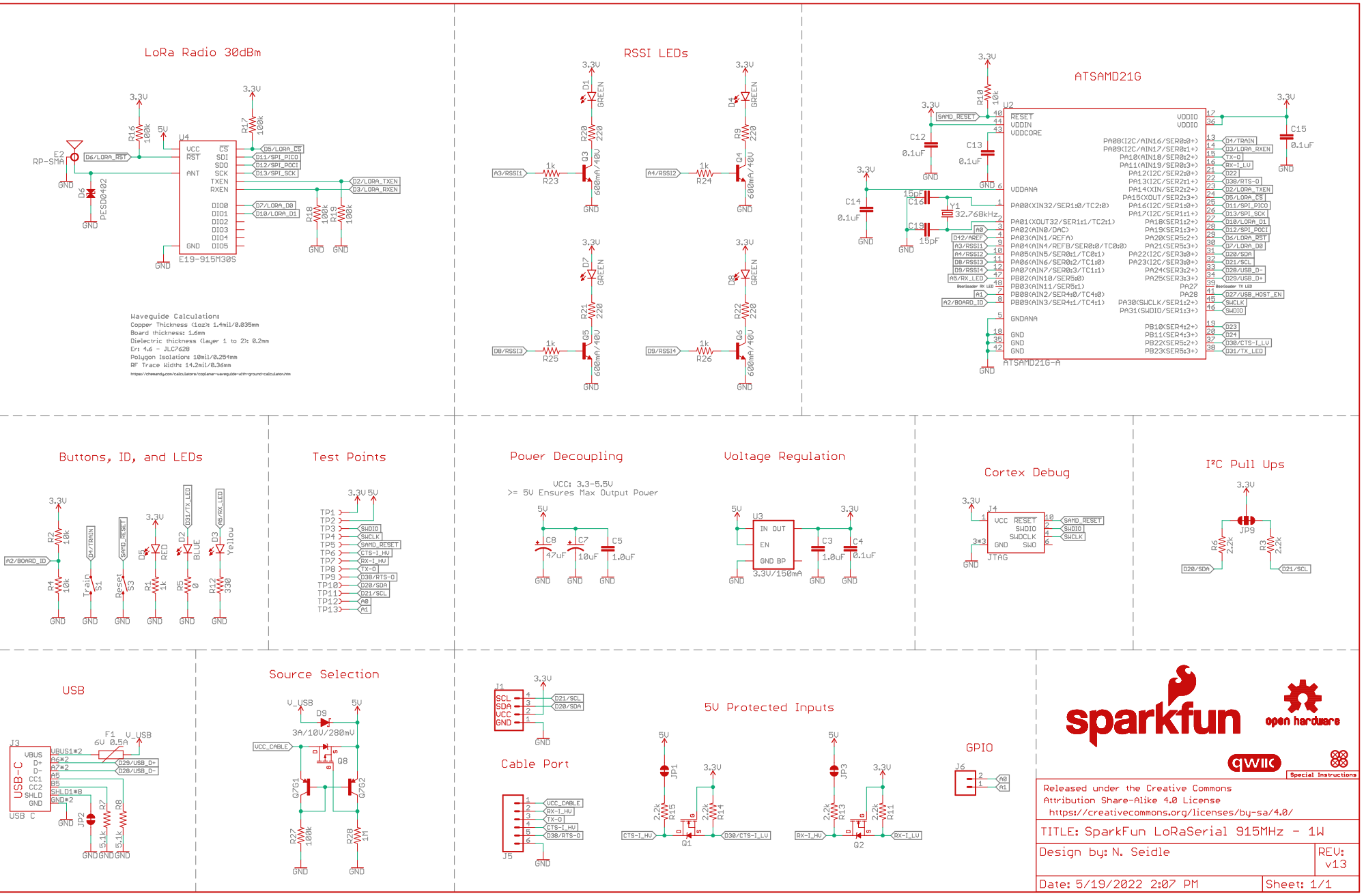
LoRa Radio 30dBm
RSSI LEDs
ATSAMD21G
Buttons, ID, and LEDs
Test Points
Power Decoupling
Voltage Regulation
Cortex Debug
I²C Pull Ups
USB
Source Selection
5V Protected Inputs
Cable Port
GPIO
Waveguide Calculation:
Copper Thickness (1oz): 1.4mil/0.035mm
Board thickness: 1.6mm
Dielectric thickness layer 1 to 2: 0.2mm
Er: 4.6 - JLC7628
Polygon Isolation: 10mil/0.254mm
RF Trace Width: 14.2mil/0.36mm
https://cheeandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm
VCC: 3.3-5.5V
>= 5V Ensures Max Output Power
ATSAMD21G-A
E19-915M30S
JTAG
sparkfun
open hardware
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TITLE: SparkFun LoRaSerial 915MHz - 1W
Design by: N. Seidle
REV: v13
Date: 5/19/2022 2:07 PM
Sheet: 1/1