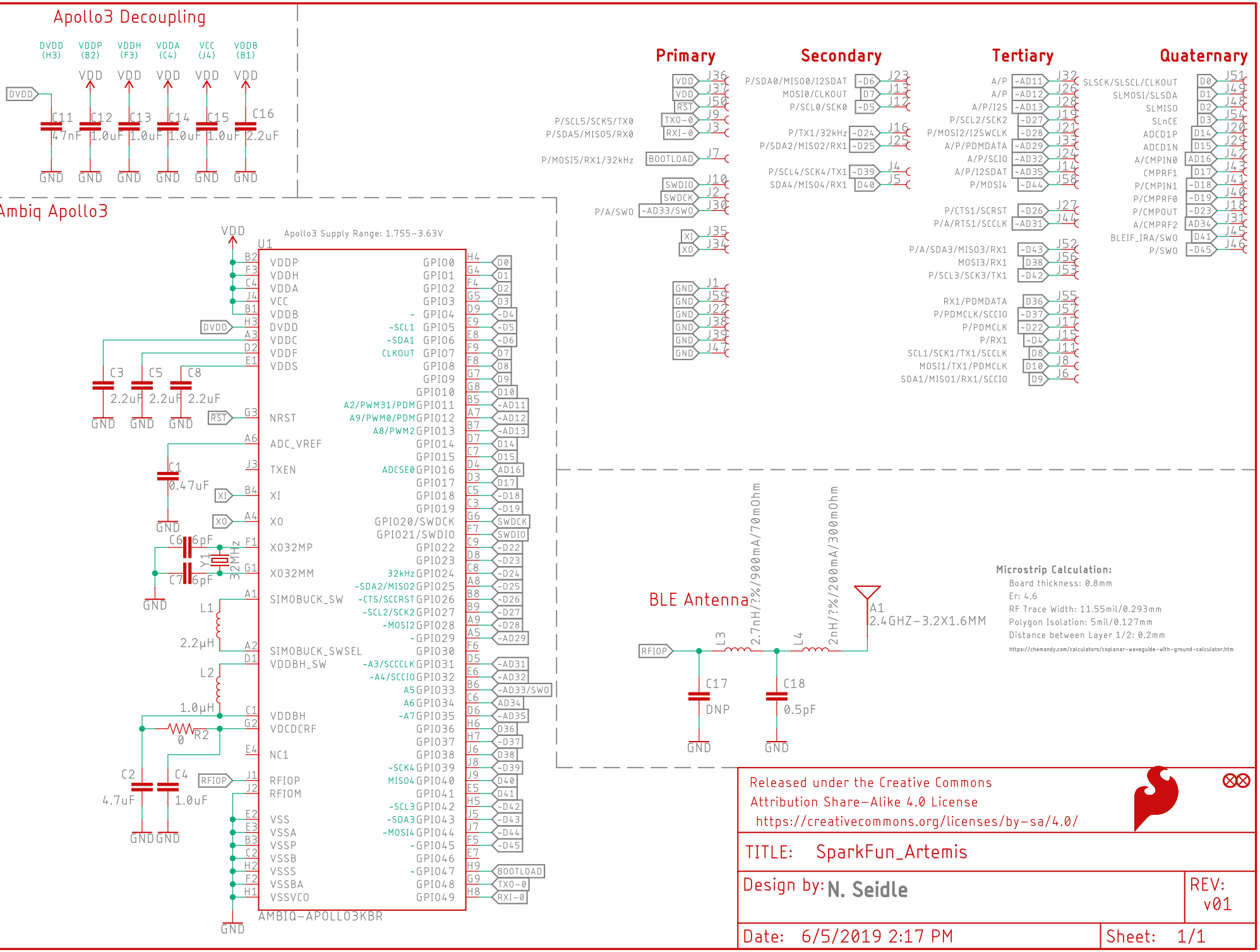
Apollo3 Decoupling
DVDD (H3)
VDDP (B2)
VDDH (F3)
VDDA (C4)
VCC (J4)
VDDB (B1)
C11 47nF
C12 1.0uF
C13 1.0uF
C14 1.0uF
C15 1.0uF
C16 2.2uF
GND
Ambiq Apollo3
Apollo3 Supply Range: 1.755-3.63V
U1
AMBIQ-APOLLO3KBR
C3 2.2uF
C5 2.2uF
C8 2.2uF
C1 0.47uF
C6 6pF
C7 6pF
Y1 32MHz
L1 2.2µH
L2 1.0µH
R2 0
C2 4.7uF
C4 1.0uF
Primary
Secondary
Tertiary
Quaternary
BLE Antenna
A1 2.4GHZ-3.2X1.6MM
L3 2.7nH/?%/900mA/70mOhm
L4 2nH/?%/200mA/300mOhm
C17 DNP
C18 0.5pF
Microstrip Calculation:
Board thickness: 0.8mm
Er: 4.6
RF Trace Width: 11.55mil/0.293mm
Polygon Isolation: 5mil/0.127mm
Distance between Layer 1/2: 0.2mm
https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm
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TITLE: SparkFun_Artemis
Design by: N. Seidle
REV: v01
Date: 6/5/2019 2:17 PM
Sheet: 1/1