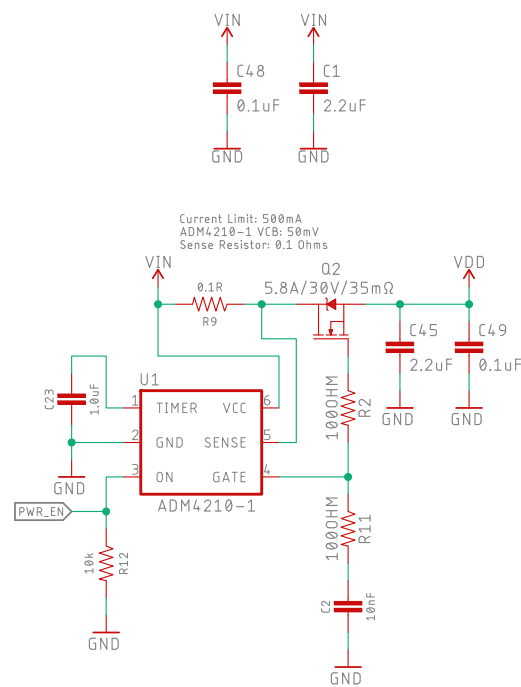
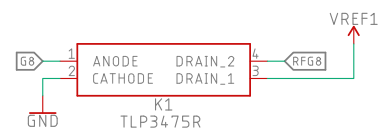


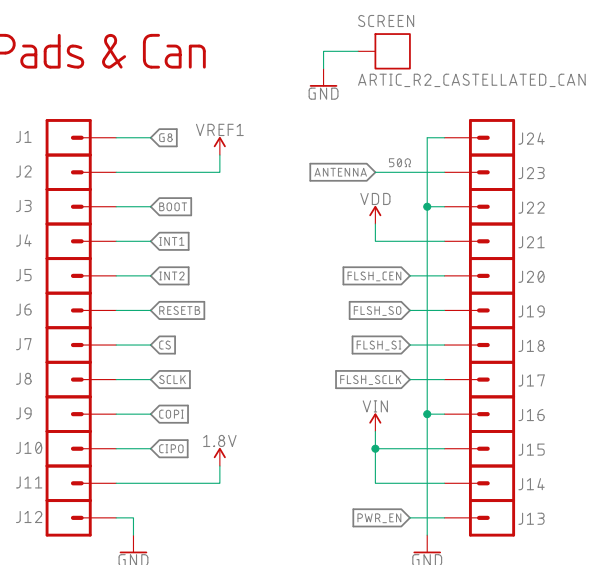
Power Switching & Inrush Current Limit



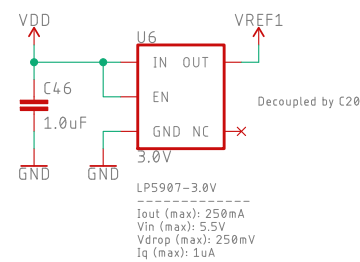
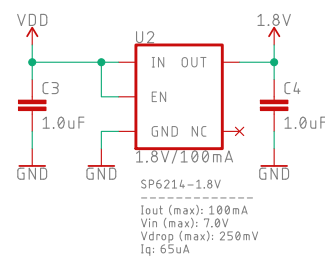
Gain Opto-Isolation



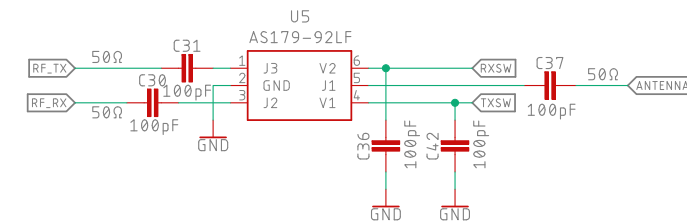
Pads & Can



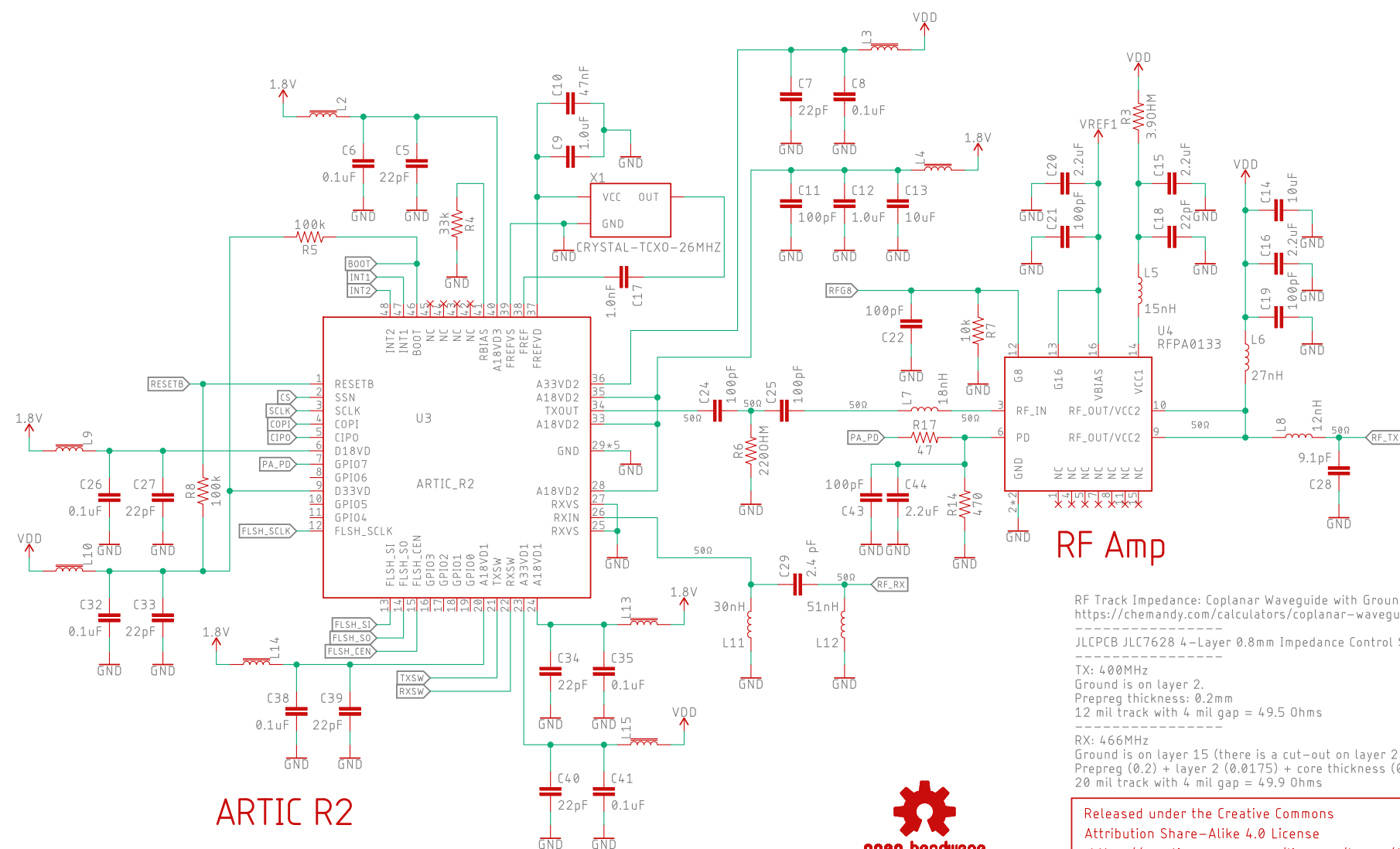
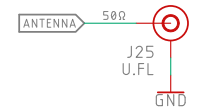
Voltage Regulation



Antenna Switch



Antenna



RF Amp

RF Track Impedance: Coplanar Waveguide with Ground Calculations
<https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm>

 JLCPCB JLC7628 4-Layer 0.8mm Impedance Control Stackup (Er = 4.6)

 TX: 400MHz
 Ground is on layer 2.
 Prepreg thickness: 0.2mm
 12 mil track with 4 mil gap = 49.5 Ohms

 RX: 466MHz
 Ground is on layer 15 (there is a cut-out on layer 2 as per AnSem's design guide).
 Prepreg (0.2) + layer 2 (0.0175) + core thickness (0.265) = 0.4825mm
 20 mil track with 4 mil gap = 49.9 Ohms

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TITLE:	ARTIC_R2_Module
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Design by: Paul Clark
Based on the Icoteq Reference Design

Date: 17/12/2020 07:25

Sheet: 1/1