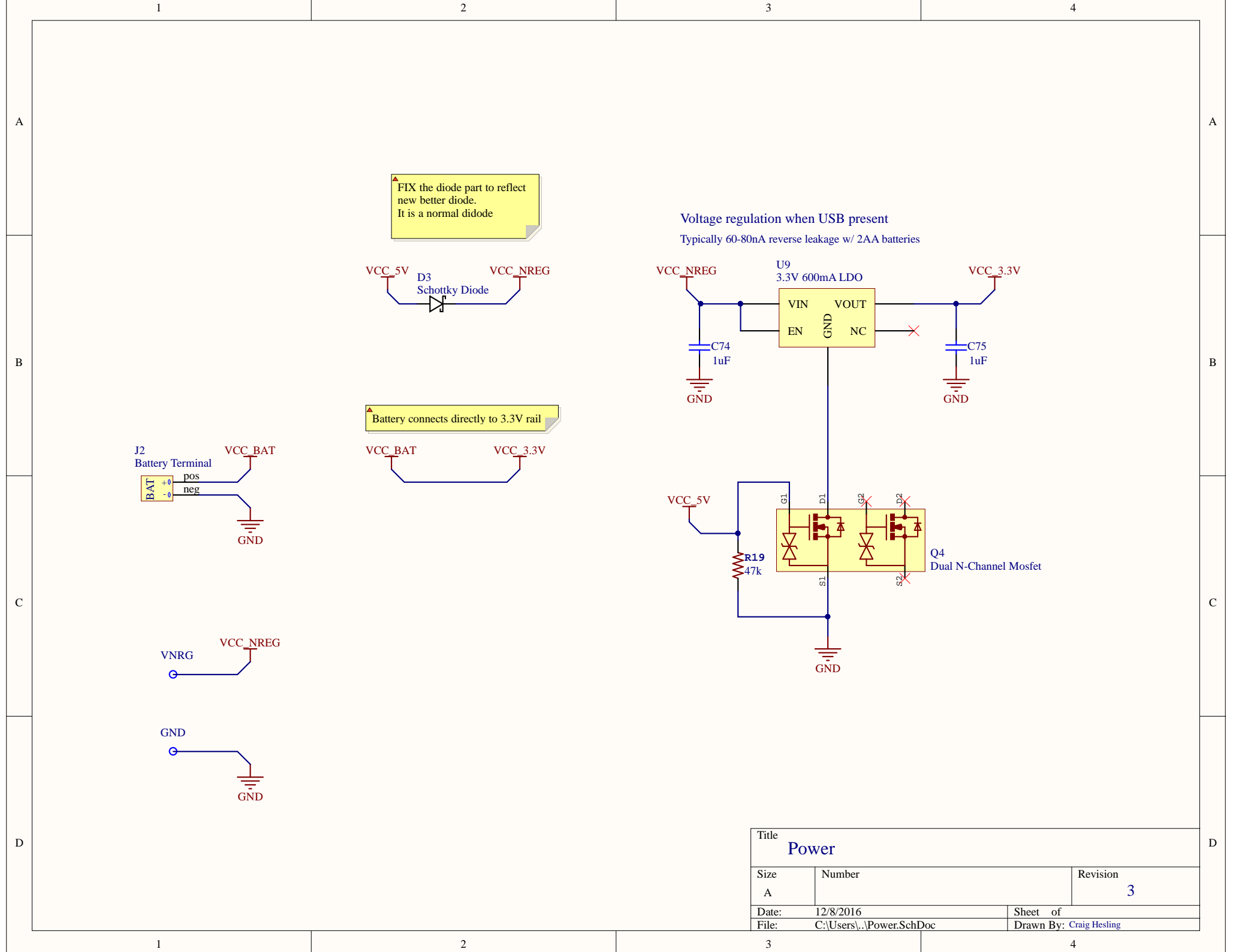
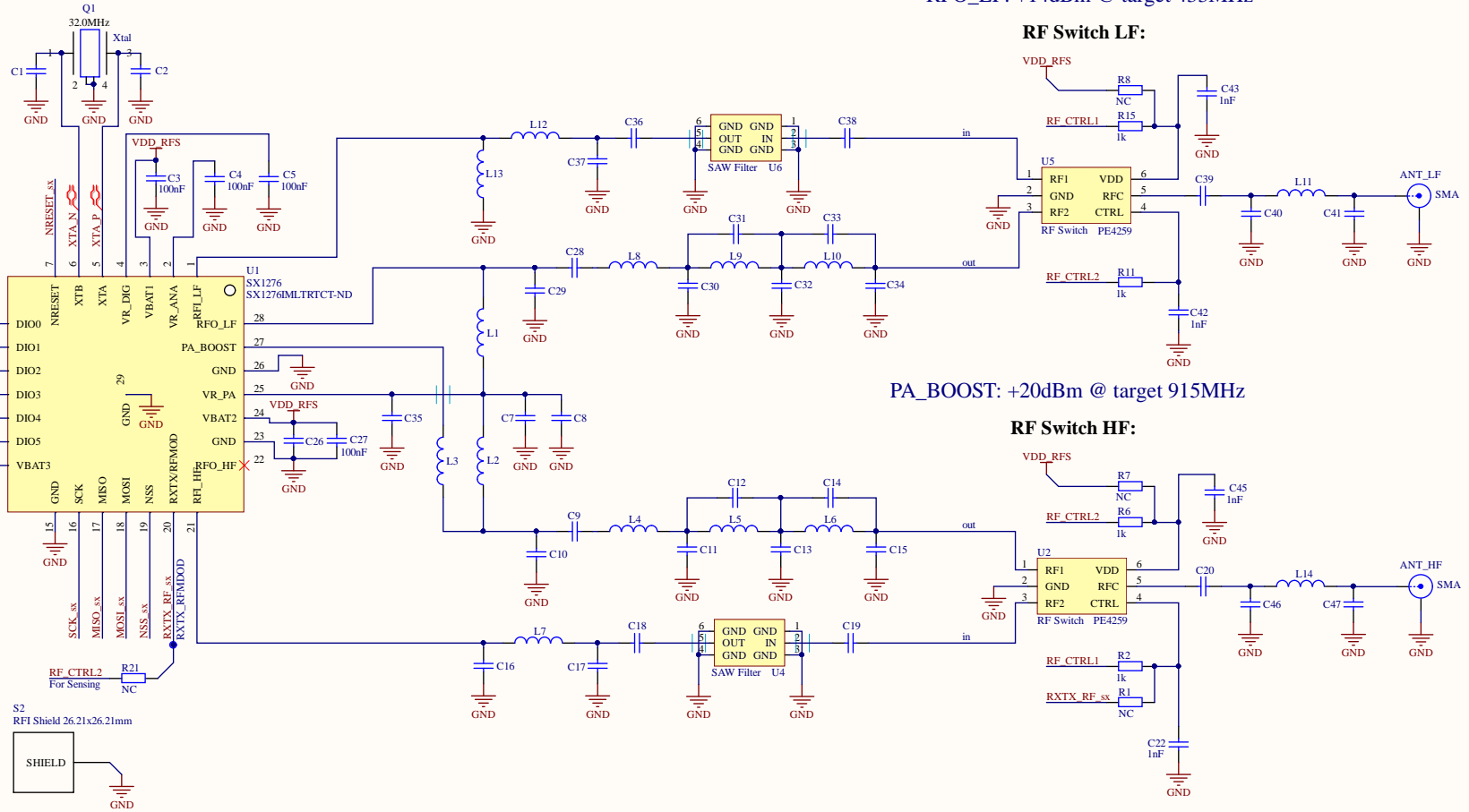


Title Peripherals		
Size A	Number	Revision 3
Date:	12/8/2016	Sheet of
File:	C:\Users\...\Peripherals.SchDoc	Drawn By: Craig Hesling

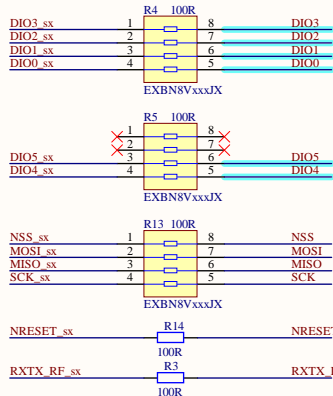


SX1276 RF Part:

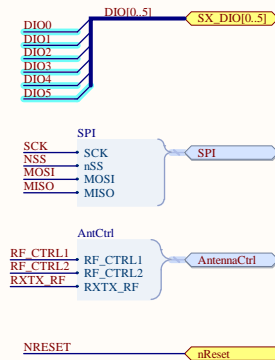
Logo1
LoRa Logo
0



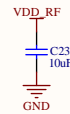
100Ohm Resistors:



Interface:



Power Input:

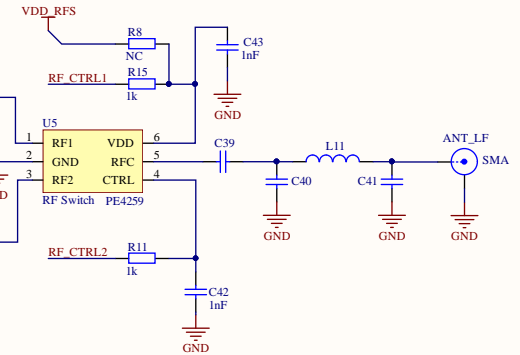


Power Select:



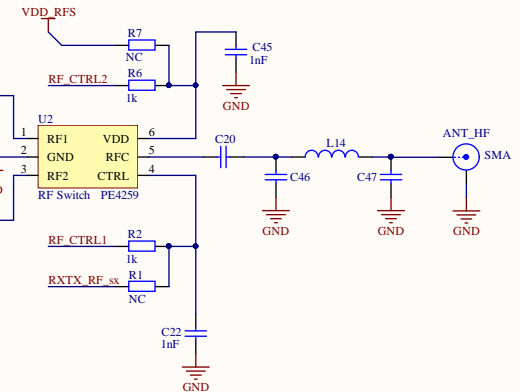
RFO_LF: +14dBm @ target 433MHz

RF Switch LF:



PA_BOOST: +20dBm @ target 915MHz

RF Switch HF:



Design Notes

- * PA_BOOST (Power Amplifier Boost) is configured for the high frequency(HF) side. This provides the +20dBm to the HF side. So, we do not use RFO_HF.
 - * The LF side can only do +14dBm with the RFO_LF.
 - * Saw filter U4 should be 16MHz wide and centered at 915MHz.
 - * Saw filter U6 should be centered at 433MHz.
 - * When RF Switch CTRL is high RF1 is selected.
- RF Switch Configuration:
- * The given resistor configuration is for linked control of both RF switches through the complement pair RF_CTRL1 and RF_CTRL2. This is so that you can disable all power to the RF switches in sleep mode.
 - * When RF_CTRL1 is high and RF_CTRL2 is low, both RF switches are in TX mode.
 - * When RF_CTRL1 is low and RF_CTRL2 is high, both RF switches are in RX mode.
 - * When RF_CTRL1 and RF_CTRL2 are low, both RF switches are disabled and no power is consumed.
 - * When RF_CTRL1 and RF_CTRL2 are high, both RF switches are in TX mode.

Title		
Semtech SX1276 Radio		
Size	Number	Revision
A3		3.1
Date:	12/8/2016	Sheet of
File:	C:\Users\...SX1276Radio.SchDoc	Drawn By: Craig Heeling

