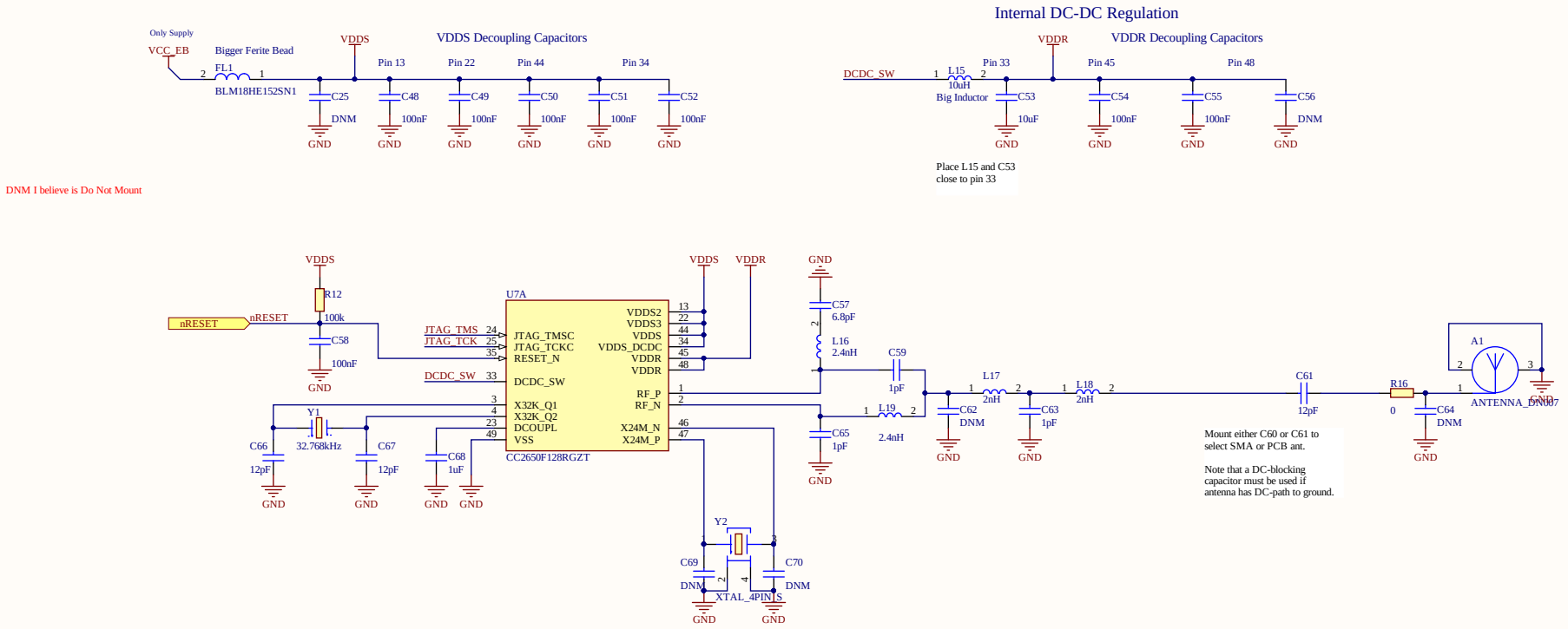
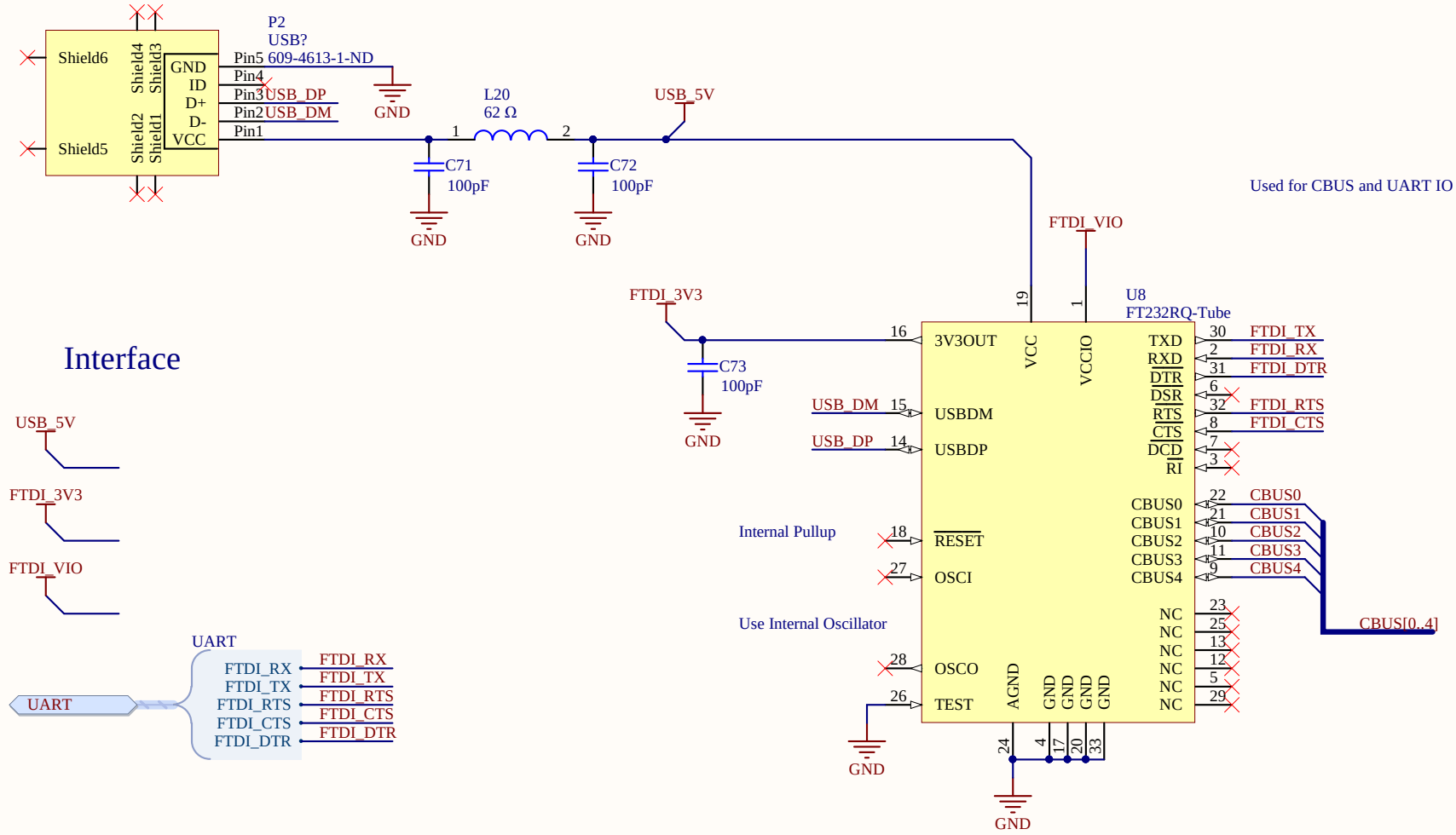


Title	TI CC2650 Radio and MCU	
Size: A3	Number:	Revision: 1
Date: 6/21/2016	Sheet of	
File: C:\Users\...\CC2650MCURadio.SchDoc	Drawn By: Craig Hesling	

TODO: Connect USB Shielding



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Size: A	Number:	Revision: 1
Date: 6/21/2016		Sheet of
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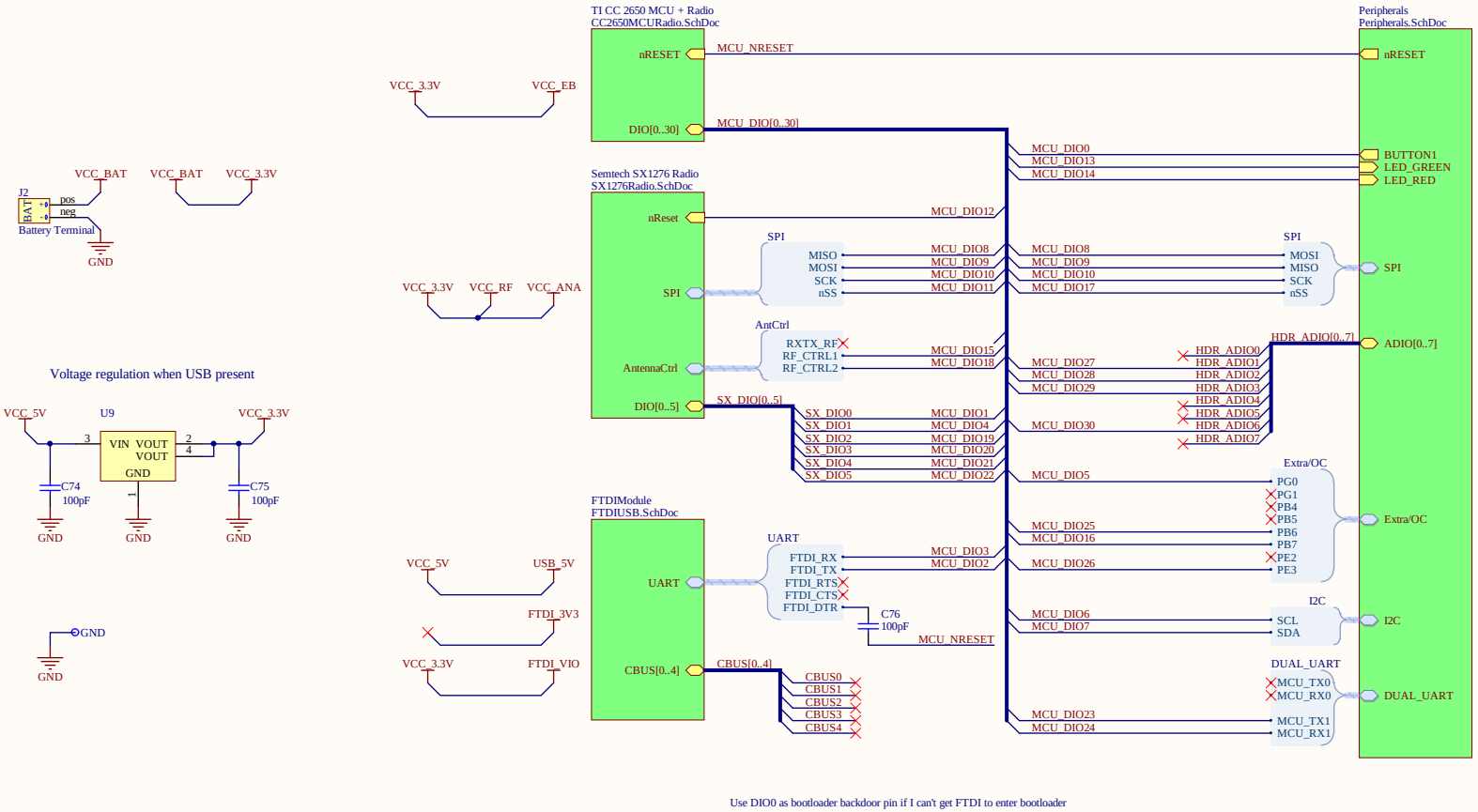

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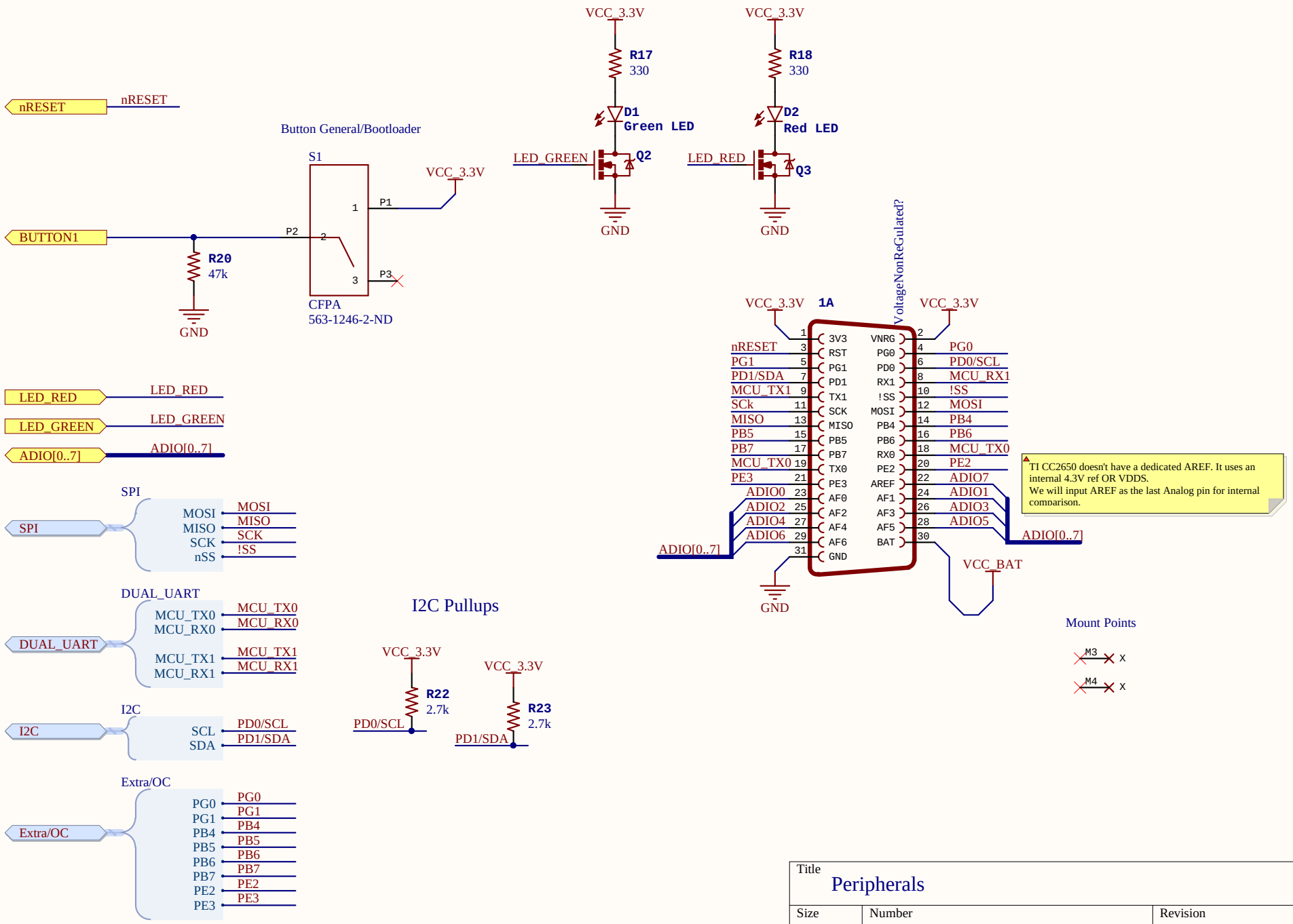
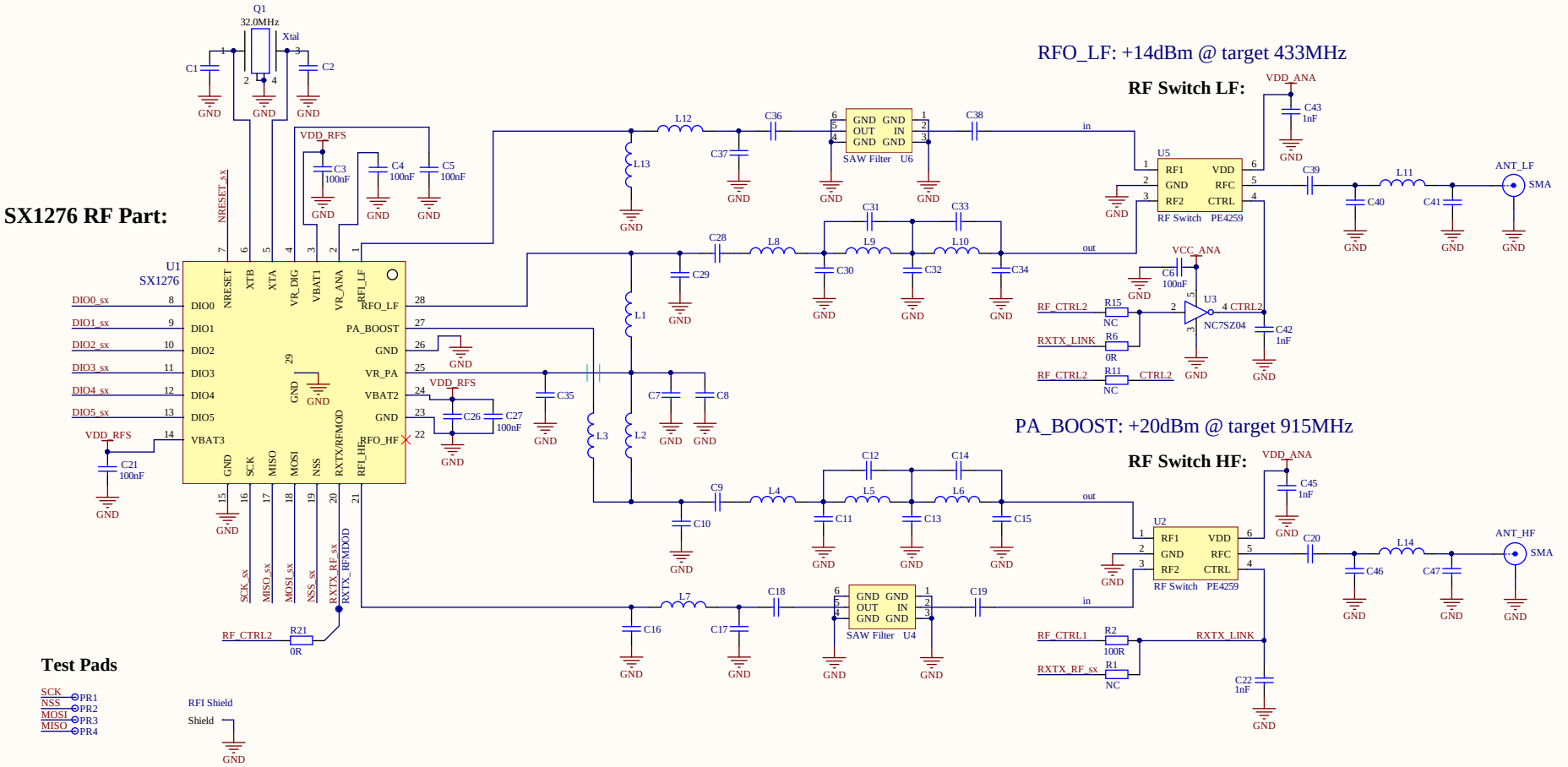
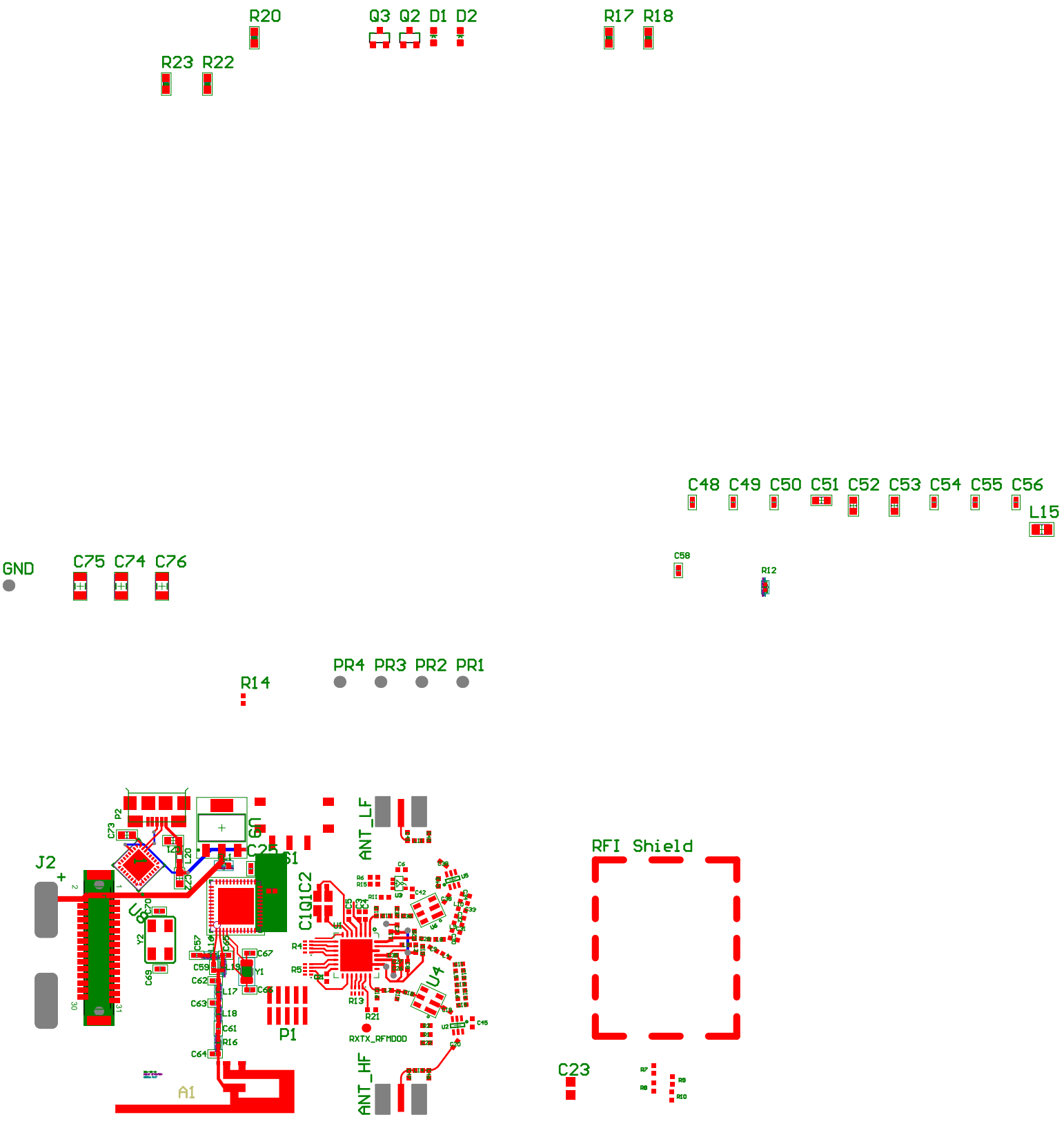
Size: A3	Number:	Revision: 1
Date: 6/21/2016	Sheet of	
File: C:\Users\..\Main.SchDoc	Drawn By: Craig Hesling	



Title: Peripherals		
Size: A	Number:	Revision: 1
Date: 6/21/2016		Sheet of
File: C:\Users\..\Peripherals.SchDoc		Drawn By: Craig Hesling


SX1276 RF Part:
RFO_LF: +14dBm @ target 433MHz
RF Switch LF:
PA_BOOST: +20dBm @ target 915MHz
RF Switch HF:
Test Pads
RFI Shield
100Ohm Resistors:
Interface:
Power Input:
Pullup/Pulldowns:
Power Select:
Design Notes
* PA_BOOST (Power Amplifier Boost) is configured for the high frequencie(HF) side. This provieds 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 switched through RF_CTRL1. This is to mimic the controls of the Semtech mbed board. RF_CTRL2 is connected to the SX's RXTX_RF to get feedback from the SX. When RF_CTRL1 is high, both are in TX mode.
Title
Semtech SX1276 Radio
Size
A3
Number
Revision
1
Date: 6/21/2016
File: C:\Users\...\SX1276Radio.SchDoc
Sheet of
Drawn By: Craig Hesling


R20
Q3 Q2 D1 D2
R17 R18
R23 R22
C48 C49 C50 C51 C52 C53 C54 C55 C56
L15
GND
C75 C74 C76
C58
R12
R14
PR4 PR3 PR2 PR1
J2
ANT_LF
ANT_HF
P1
RXTX_RFMDOD
RFI Shield
C23
A1