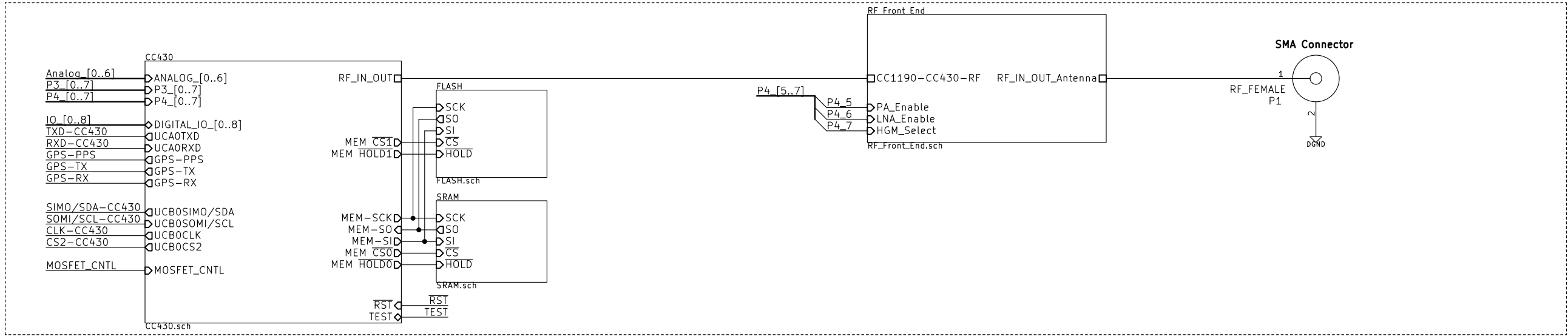
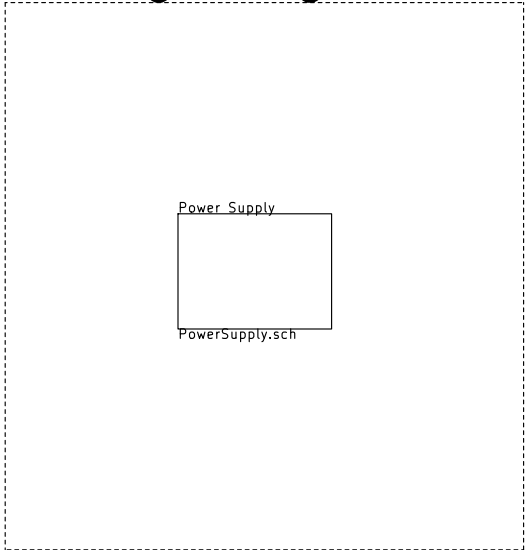


FaradayRF Wireless Node

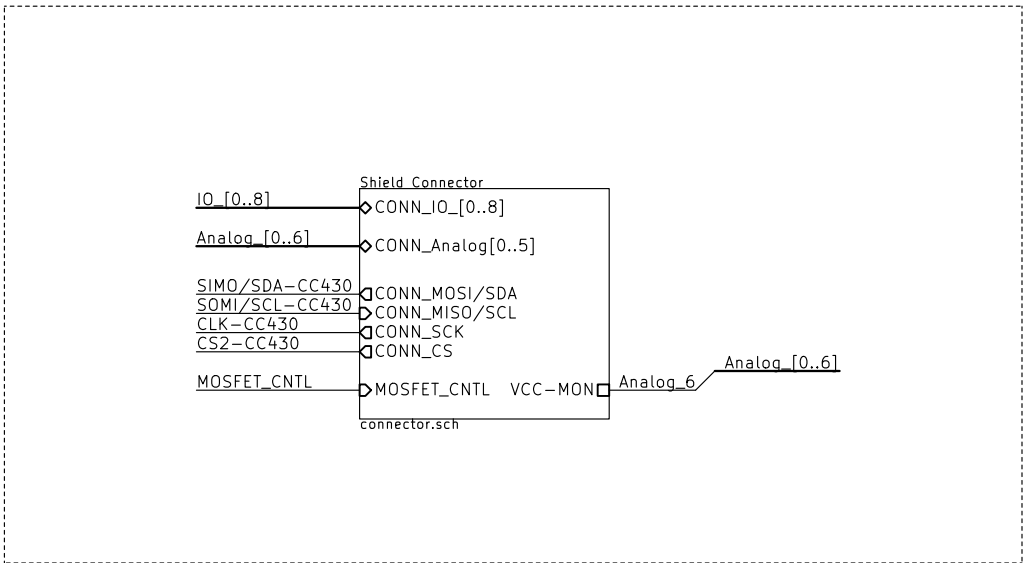
RF & Control Section



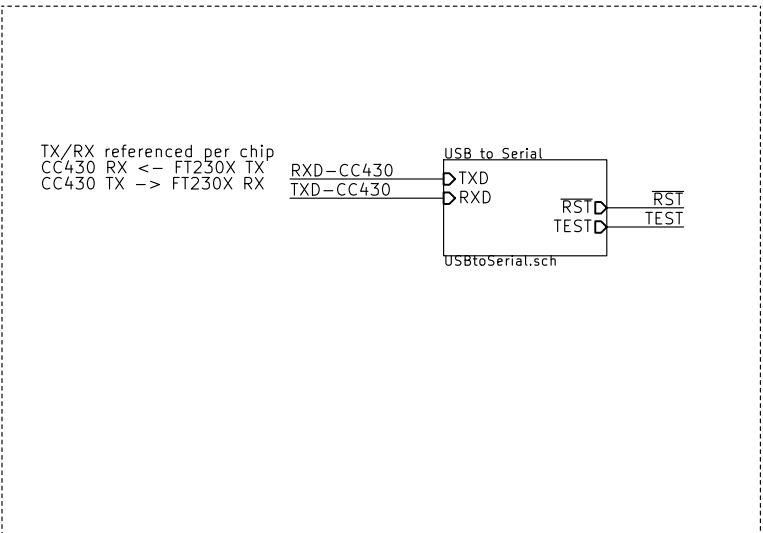
Voltage Regulator



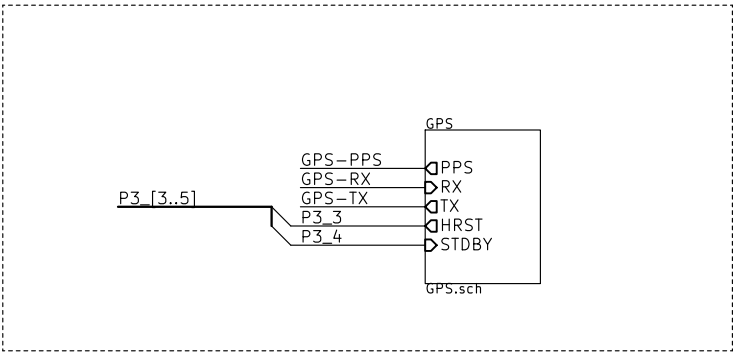
Connectors



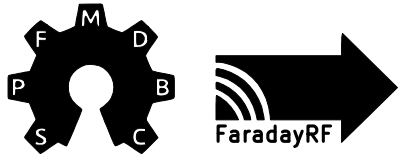
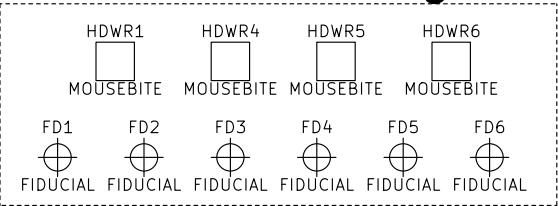
USB <--> UART



GPS Receiver



Manufacturing



open source
hardware

TAPR OHL V1.0: <http://www.tapr.org/OHL>
Bryce Salmi (KB1LQC), Brenton Salmi (KB1LQD)
www.FaradayRF.com
FaradayRF

File: Faraday.sch
Sheet: /

Title: Faraday Wireless Node

Size: B Date: 18 nov 2016

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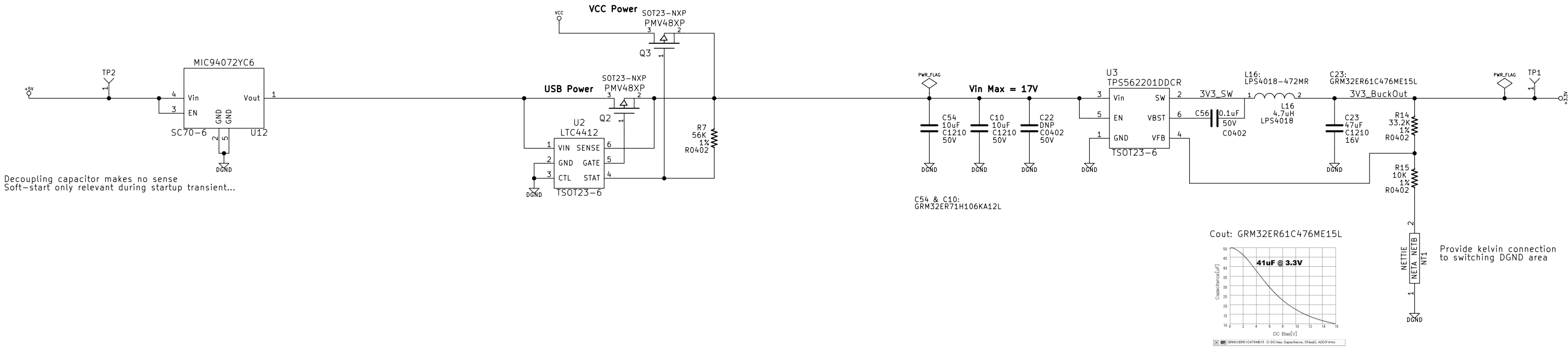
Rev: D

Id: 1/11

USB Soft-Start

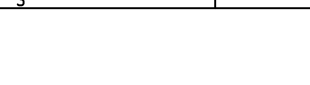
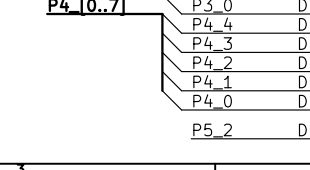
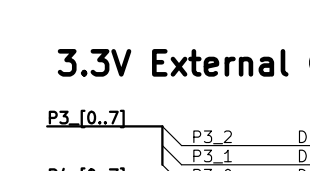
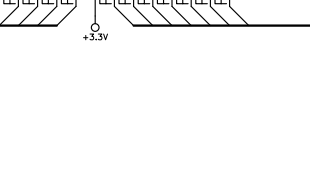
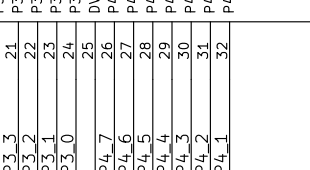
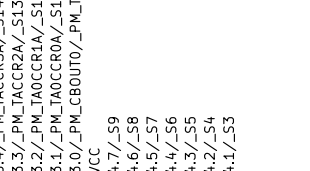
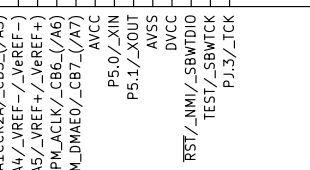
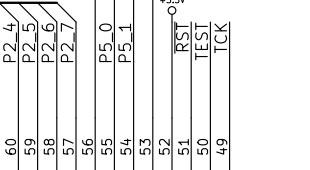
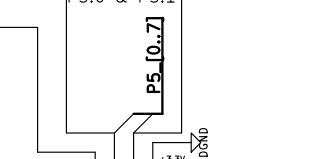
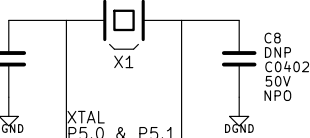
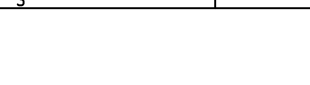
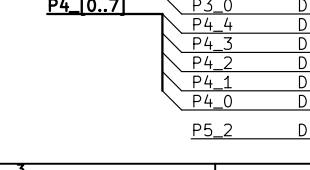
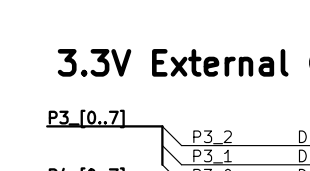
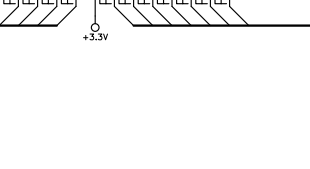
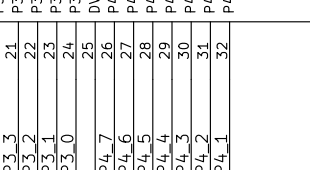
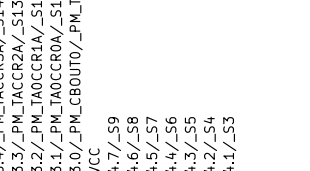
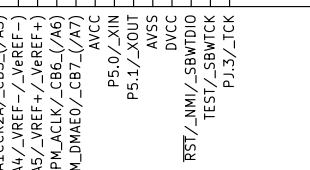
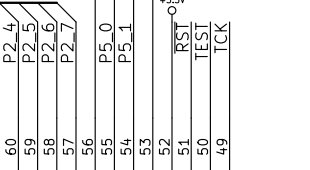
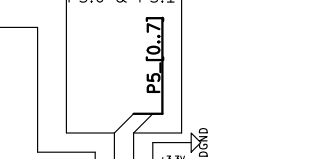
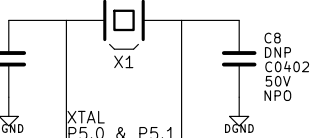
Ideal Diode Controller

3.3V Buck Regulator – 0.5A

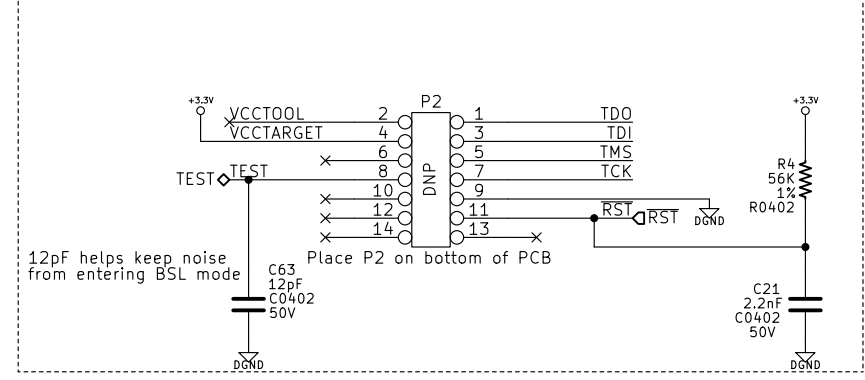


32.768KHz Watch Crystal

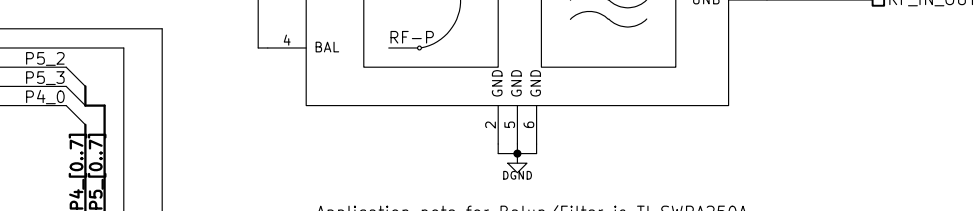
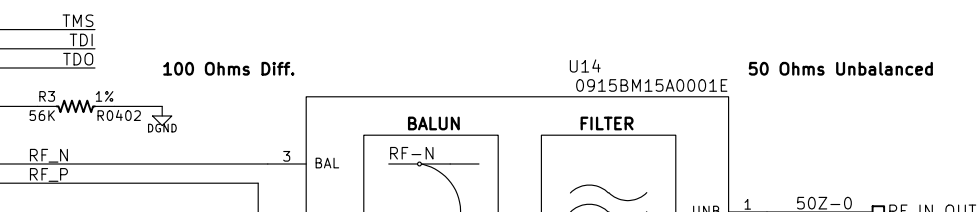
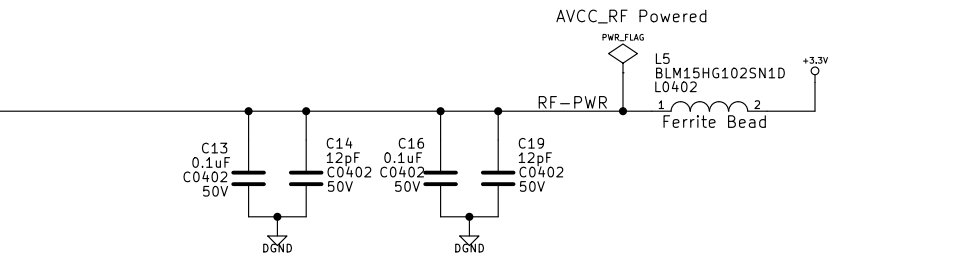
ST3215SB32768H5HPWAA



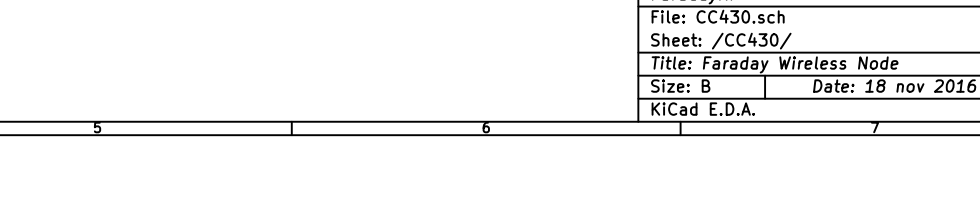
JTAG



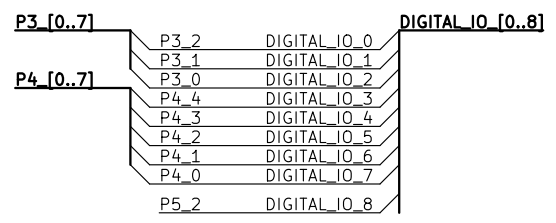
http://processors.wiki.ti.com/index.php/File:JTAG_4_wire_pinout.JPG

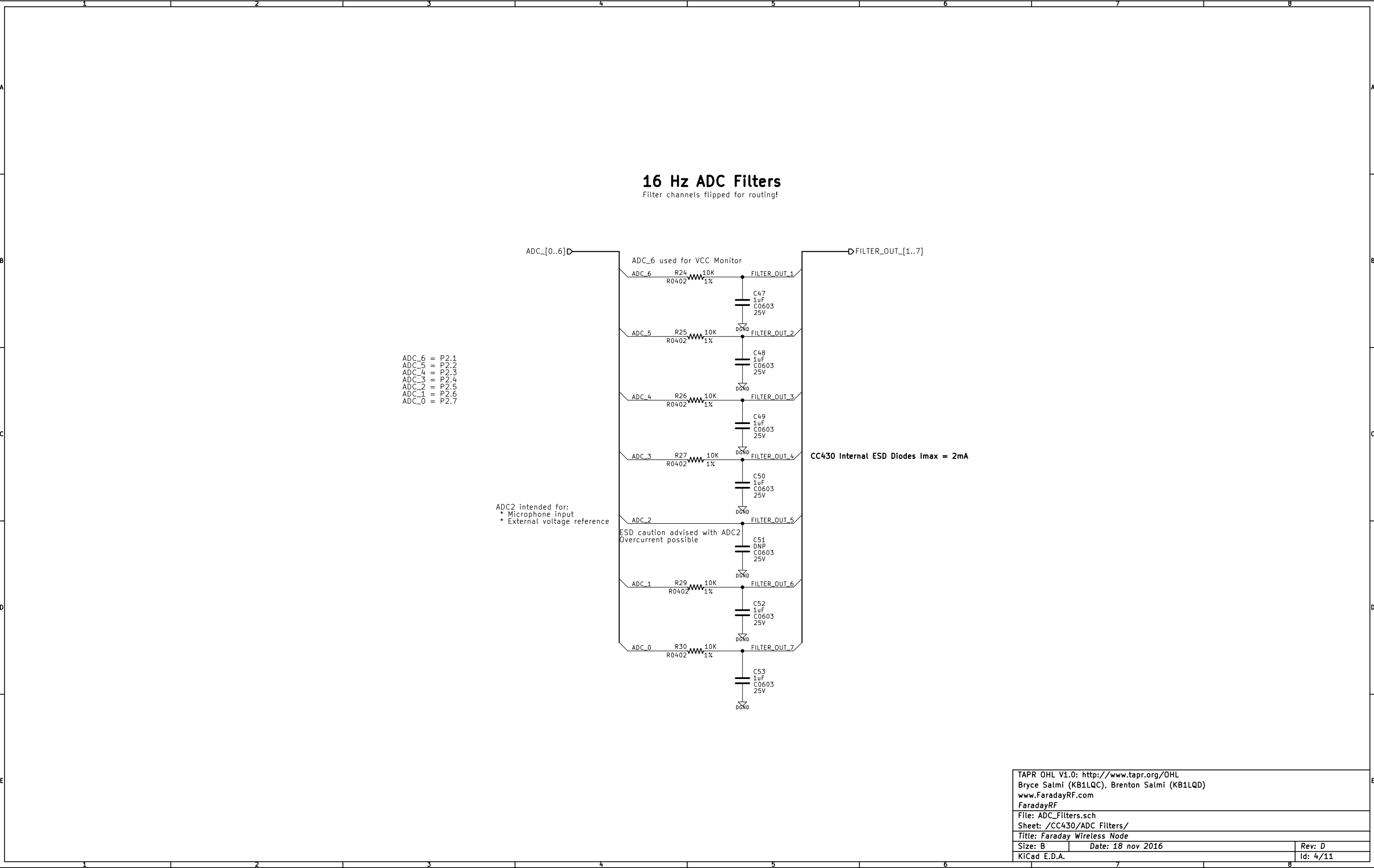


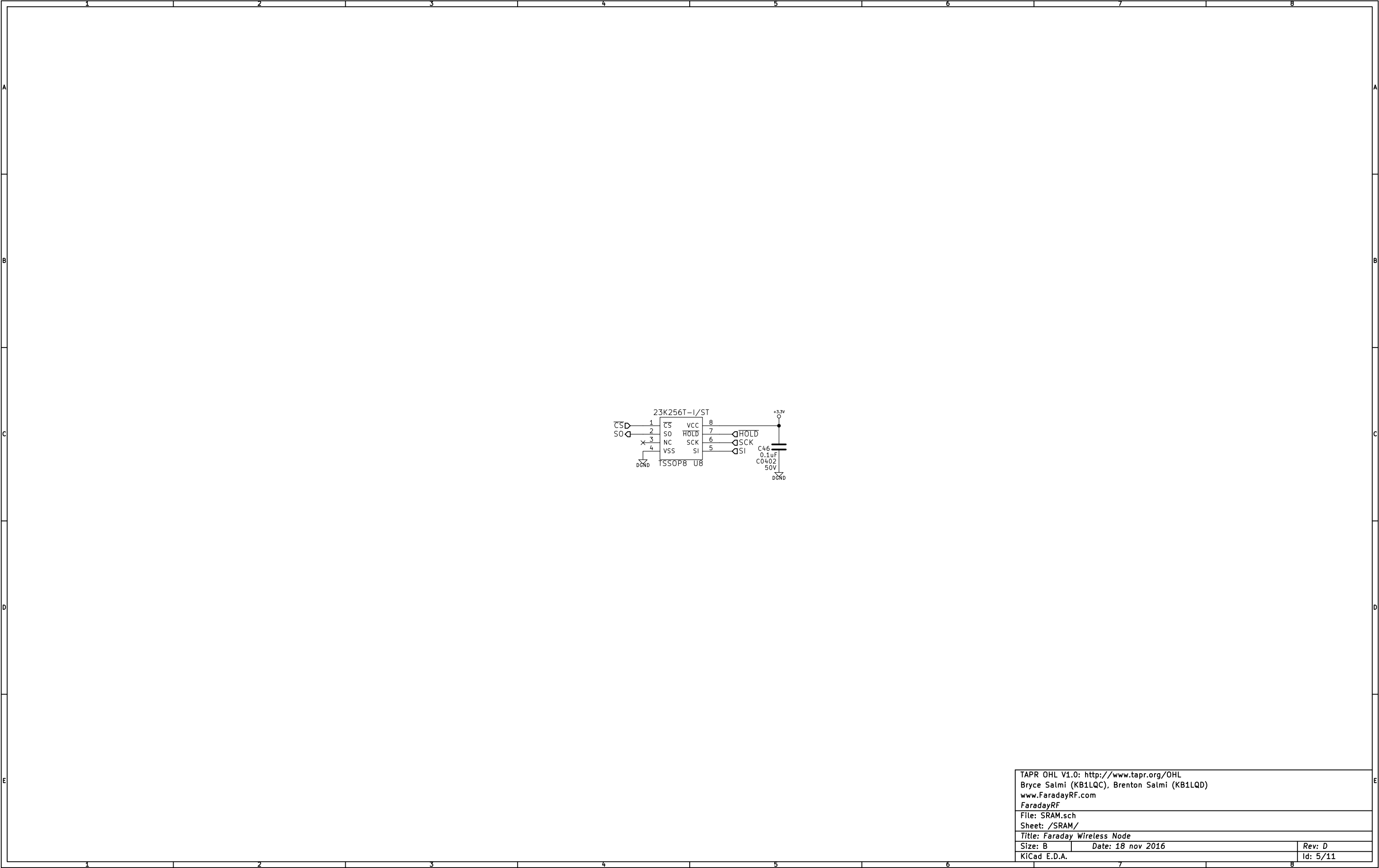
Application note for Balun/Filter is TI SWRA250A

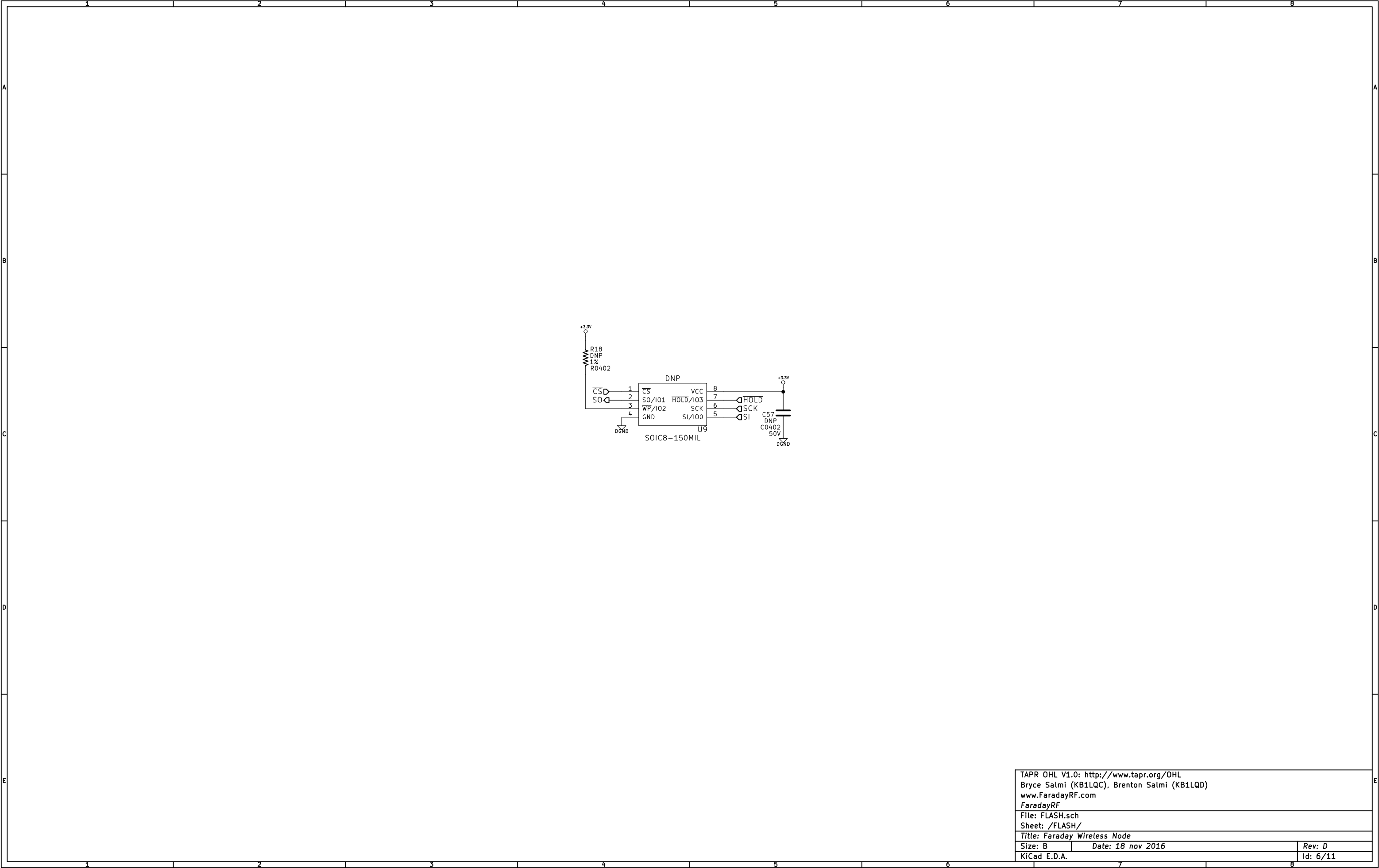


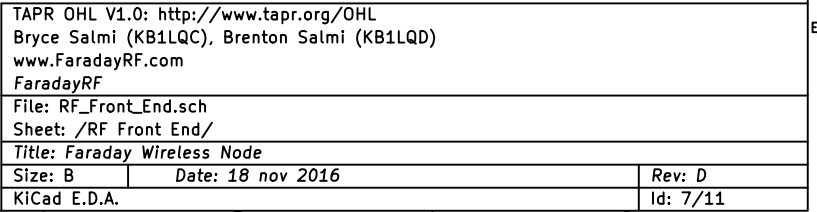
3.3V External GPIO Interface

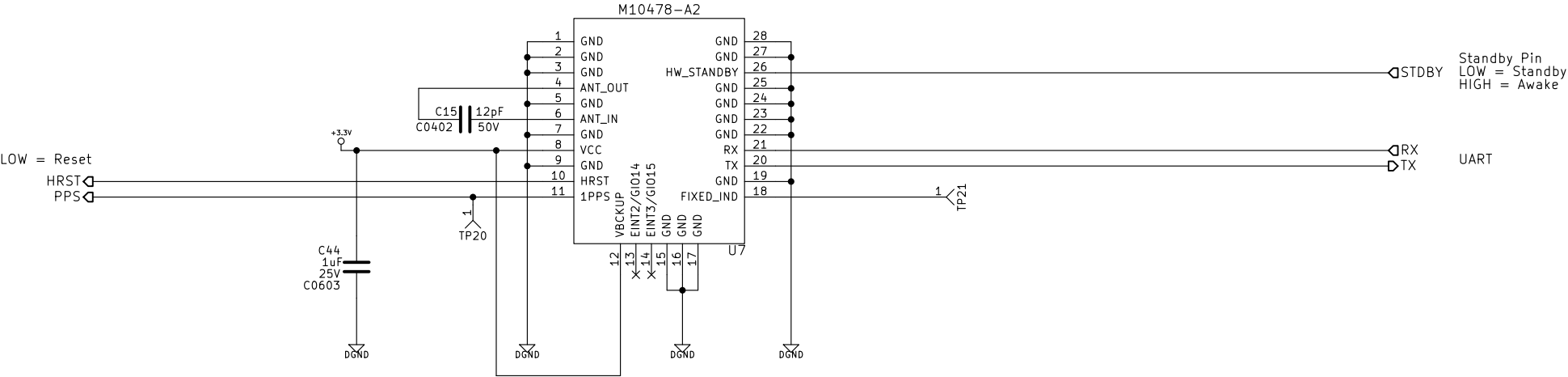




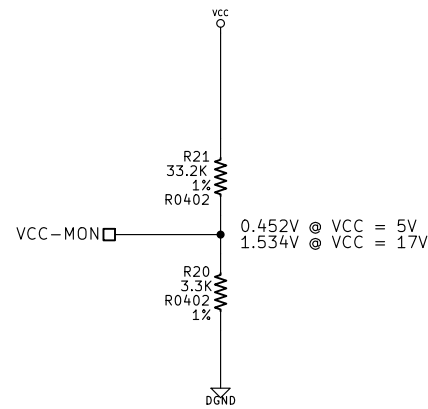




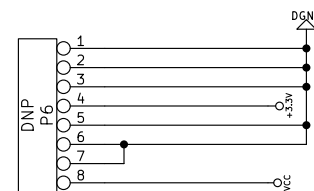




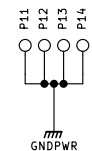
GPS can be DNP'd for cheap version w/ passives soldered
allowing for customer to buy GPS afterwards if needed



Power

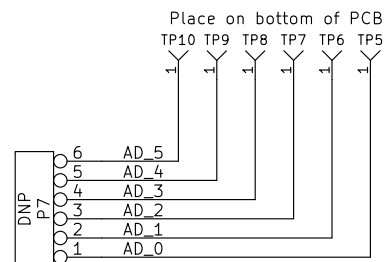


Mounting Holes 125 mil

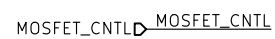
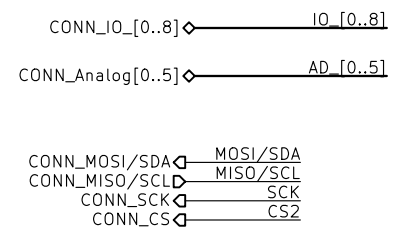
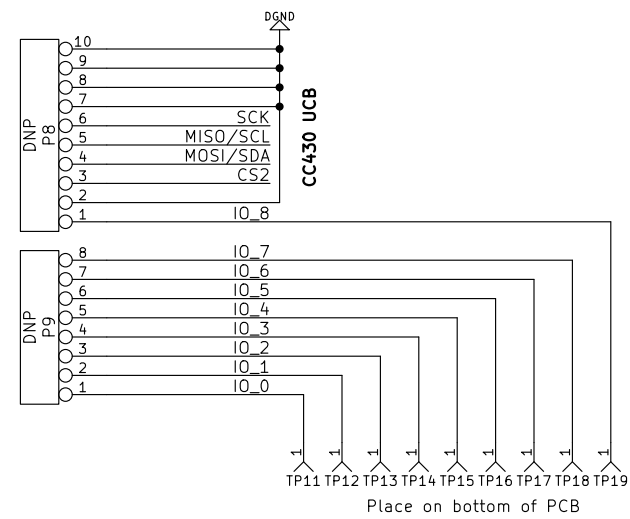


Connected to USB shield

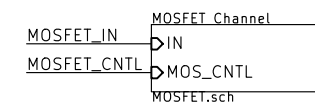
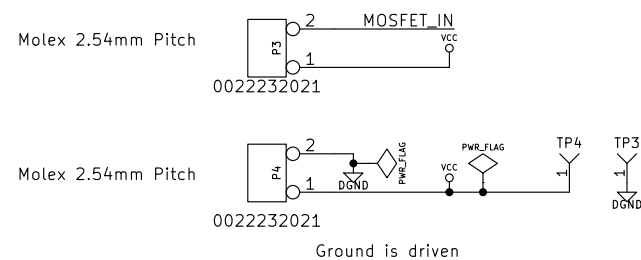
Analog In



Digital



Ext. Power/MOSFET



TAPR OHL V1.0: <http://www.tapr.org/OHL>
Bryce Salmi (KB1LQC), Brenton Salmi (KB1LQD)
www.FaradayRF.com
FaradayRF

File: connector.sch

Sheet: /Shield Connector/

Title: Faraday Wireless Node

Size: B Date: 18 nov 2016

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Rev: D

Id: 10/11

