R15
0 0402
DNI

SW2
SPST

R16
0 0402

+3.2
R5
200K

J2
TXD VCC TEST/SBWTCK /RST/SBWTDIO GND RXD
1 2 3 4 5 6

TXD
RXD

0
R12
0402

Q1
CSD16322Q5
FET_1_D.

Q2
CSD16322Q5
FET_2_D.

P3
1
2
3
4
5
6
7
8
9
10

VRAIL

P1.7

+3.2
0.1uF C4
0402

C13
0.1uF
0402
DNI

U2
MSP430G2553IPW20R

1 DVCC   DVSS 20
2 P1.0   XIN   19
3 P1.1   XOUT 18
4 P1.2   TEST 17
5 P1.3   /RST 16
6 P1.4   P1.7 15
7 P1.5   P1.6 14
8 P2.0   P2.5 13
9 P2.1   P2.4 12
10 P2.2   P2.3 11

P1.7

VRAIL
P4
FET_1_D. 1
FET_2_D. 2
          3
          4
          5
          6
          7
          8

R19   R18
4.99K   4.99K
0402   0402

+3.2

R3
1K
0402

D1
LTST-C191GKT
GRN
0603

+3.2
0.1uF C3
0402

U1
BR-LE4.0-S2A

VDD 9   RF_TEST:ANT 31   RF_TEST:GND 32

2   SBWTCK   PIO_22 18
3   RESET   PIO_21 17
4   ADC_1   PIO_20 16
21 ADC_0   PIO_19 15
5   SPI_MISO   PIO_14 19
6   SPI_CSB   PIO_09 22
7   SPI_CLK   PIO_08 27
8   SPI_MOSI   PIO_07 29
11 UART_CTS   PIO_06 25
12 UART_RTS   PIO_05 24
13 UART_TX   PIO_04 28
14 UART_RX   PIO_03 26
                        PIO_02 23

GND GND GND GND
1   10   20   30

R4
0
0402
DNI FOR S2 VER.

CTS
RTS
RXD
TXD

U5
LMX9838SB

15 /CTS   OP3   16
14 /RTS   OP4/PG4 26
12 RXD   OP5   25
13 TXD

+3.2
R8   R9
1K   1K
0402   0402

20 SCLK   PG6 7
21 SFS   PG7 19
22 STD
23 SRD   XOSCEN 8

+3.2
R10
200K
0402

C11
1uF
0402

2   /RST   GND 3
                GND 4
6   MVCC   GND 17
                GND 18
9   VCCCORE   GND 24
                GND 29
10 VCC   GND 30
                GND 31
11 VCCIO   GND 32
1   NC   NC   36
5   NC   NC   37
33 NC   NC   38
34 NC   NC   39
35 NC   NC   40

C6   C7
0.1uF   2.2uF
0402   0402

+3.2
C8   C9   C10
0.1uF   0.1uF   2.2uF
0402   0402   0402

R6
0 0402

R7
0 0402

TXD
RXD
CTS
RTS

TP1
3-644456-2

100 mil centers

+3.2
0.1uF C5
0402

U4
1
2
3 -
   + 1
      5
TLV3691 4

TEXAS INSTRUMENTS
LMX9838SB with TLV3691

LEO ESTEVEZ

REV B
01-20-2014

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$$VOUT = ((R1/R2) +1) * 0.8$$

** INSTALL THIS JUMPER WHEN USING TPS62177