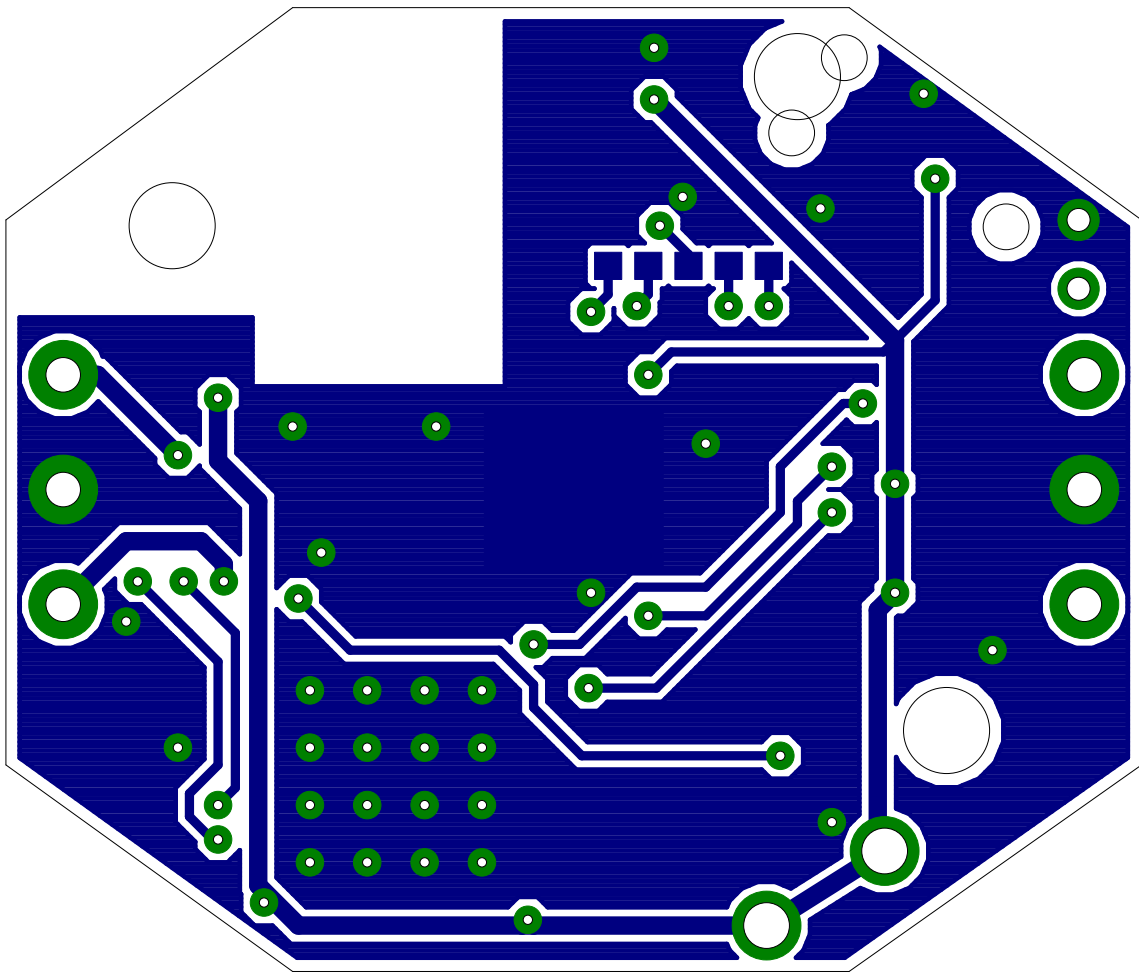
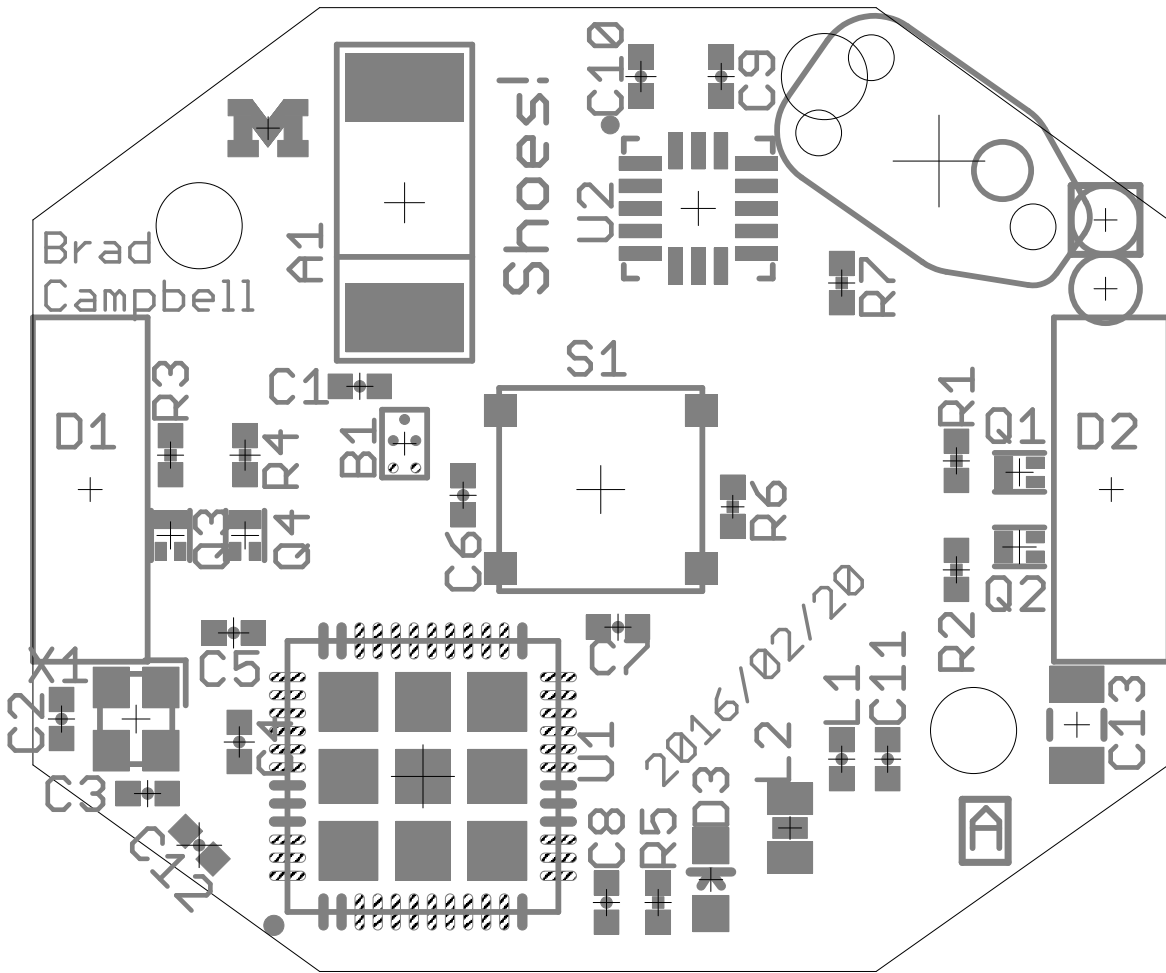
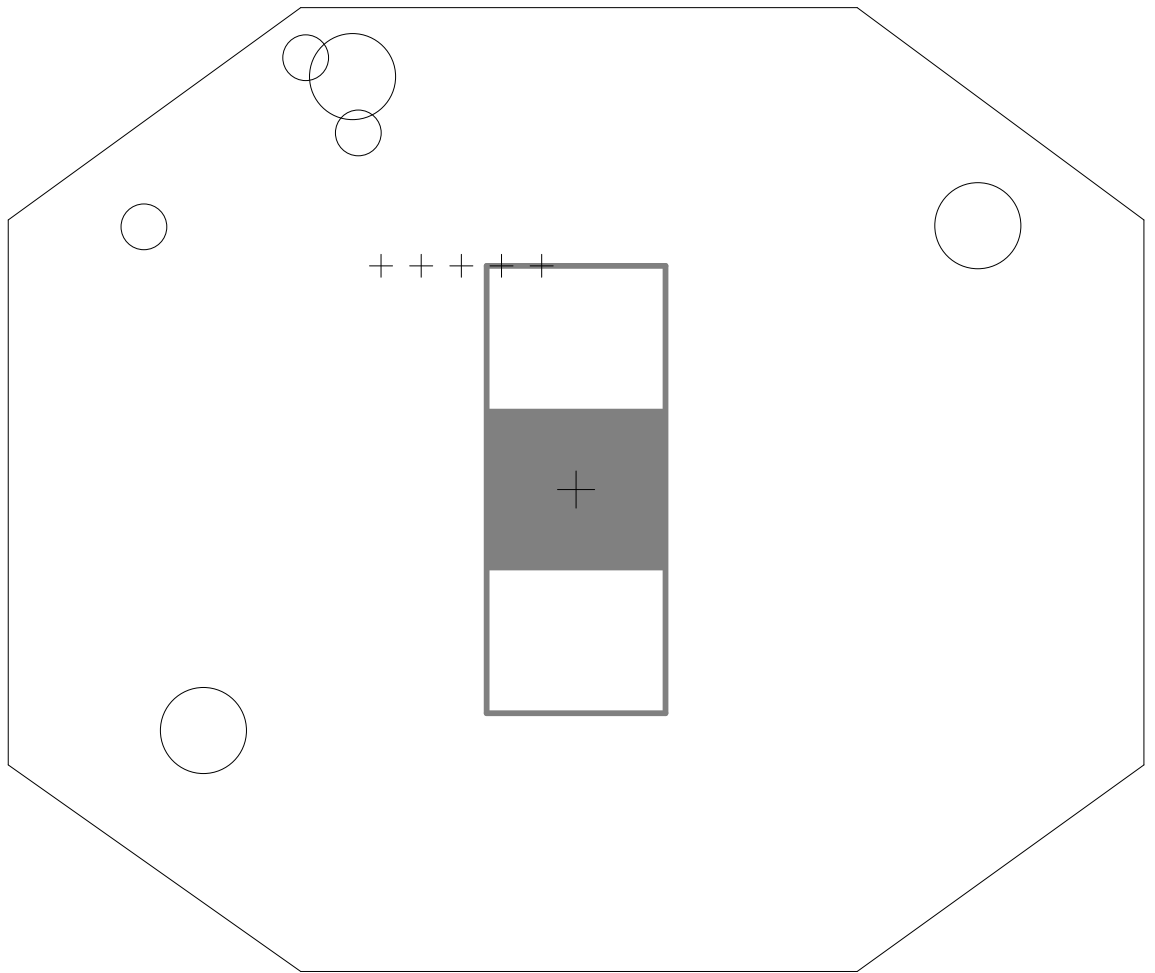


Bottom Copper Layer

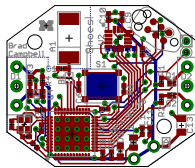




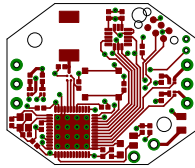
Bottom Paste Layer with Silkscreen



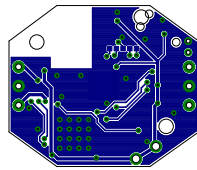
Top and Bottom Layers 1:1 Scale



Top Layer 1:1 Scale



Bottom Copper Layer 1:1 Scale



shoes

Qty	Value	Device
1	FRACTUS-2.4GHZ-FR05-S1-N-0-102	FRACTUS-2.4GHZ-FR05-S1-N-0-102
1	BAL-NRF01D3	BAL-NRF01D3
1	0.8pF	CAPACITOR
2	12pF	CAPACITOR
2	1nF	CAPACITOR
1	2.2nF	CAPACITOR
1	47nF	CAPACITOR
3	0.1uF	CAPACITOR
1	1uF	CAPACITOR
1	4.7uF	CAPACITOR
2	BICOLOR-THRUHOLE	BICOLOR-THRUHOLE
1	BLUE	LED0603
1	15nH	INDUCTOR0402
1	10uH	INDUCTOR0603
4	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3
4	470	RESISTOR
2	1k	RESISTOR
1	12k	RESISTOR
1	TL3315NF100Q	TL3315NF100Q
1	NRF51822QF	NRF51822QF
1	ADXL362	ADXL362
1	16MHz	TXC-8Y

shoes

Package	Parts
FRACTUS-ANTENNA-FR05-S1-N-0-102	A1
BAL-NRF01D3	B1
0402_CAP	C1
0402_CAP	C2, C3
0402_CAP	C4, C5
0402_CAP	C6
0402_CAP	C7
0402_CAP	C8, C9, C10
0402_CAP	C11
0402_CAP	C12
3AXIS-0.1IN	D1, D2
LED-0603	D3
0402_CAP	L1
0603_CAP	L2
XFDFN-3	Q1, Q2, Q3, Q4
0402_RES	R1, R2, R3, R4
0402_RES	R5, R6
0402_RES	R7
TL3315NF100Q	S1
QFN-48-6MM	U1
TFLGA-16/3.3MMX3.1MM	U2
TXC-8Y	X1

shoes

Description

Fractus Compact Reach Xtend™ chip antenna is engineered specifically for Bluetooth,
50 ohm nominal input / conjugate match balun to nRF51422-QFAA,

0402 Capacitor

0402 Capacitor

0402 Capacitor

0402 Capacitor

0402 Capacitor

0402 Capacitor

0402 Capacitor

0402 Capacitor

3 axis thru-hole LED

LEDs

Generic NMOS footprint

Resistor

Resistor

Resistor

SWITCH TACTILE SPST-NO 0.05A 15V

Multiprotocol Bluetooth® 4.0 low energy/2.4 GHz RF SoC

IC ACCEL DIG LO PWR 3AX 16LGA

2mmx1.6mm SMD Crystal

shoes

DIGIKEY	MOUSER	NEWARK	RICHARDSON_RFPD
			FR05-S1-N-0102B
497-13637-1-ND	511-BAL-NRF01D3		
490-6269-1-ND			
490-6197-1-ND			
490-1303-1-ND			
490-5419-1-ND			
445-1264-1-ND			
445-4952-1-ND			
1276-1513-1-ND			
445-5947-1-ND			
587-1521-1-ND			
490-4025-1-ND			
DMN2400UFB4-7DICT-ND			
RHM470CDCT-ND			
RHM1.0KCECT-ND			
RHM12.0KCDCT-ND			
EG4620CT-ND			
1490-1042-1-ND	949-NRF51822-QFAC-R7		
ADXL362BCCZ-RL7CT-ND	584-ADXL362BCCZ-R7	47W0478	
887-2003-1-ND			