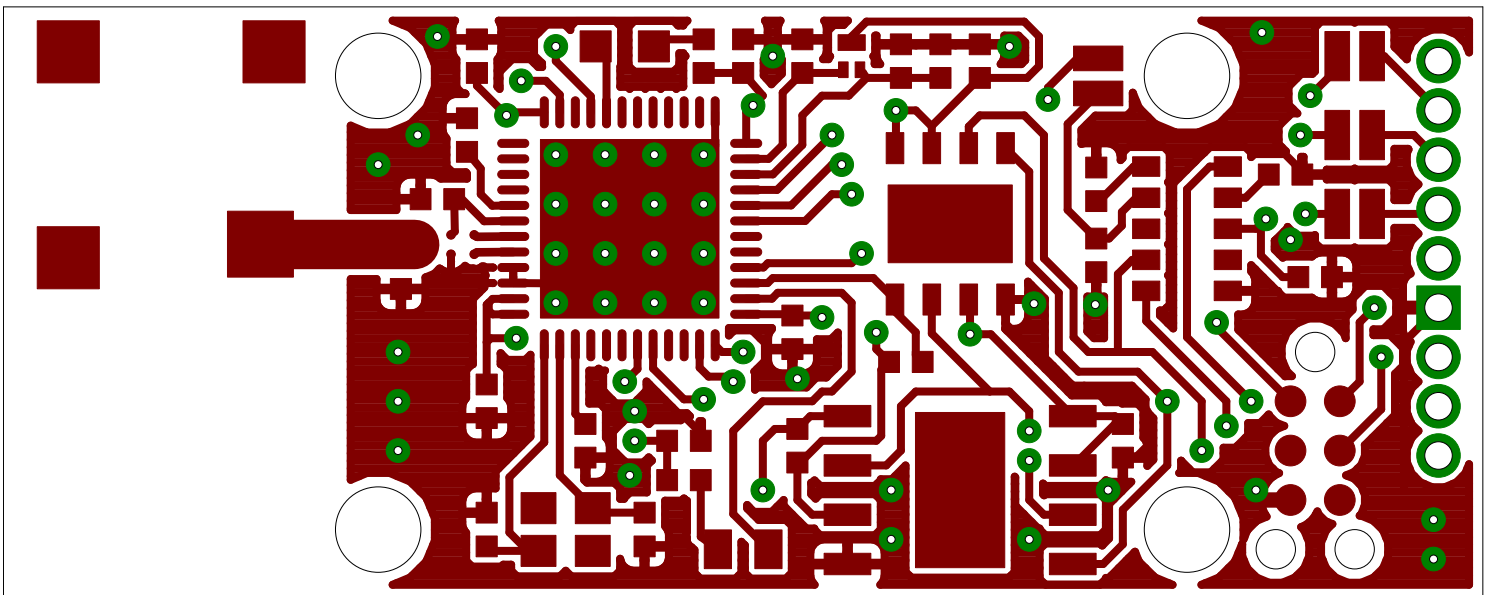
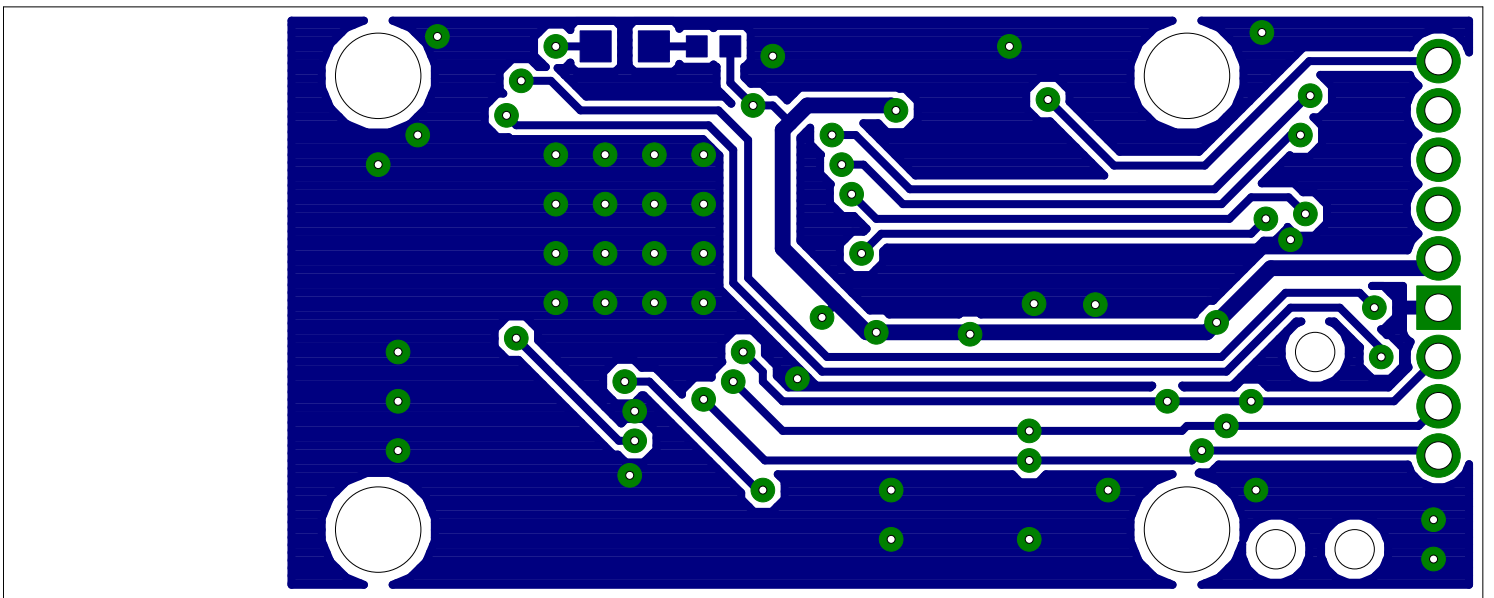
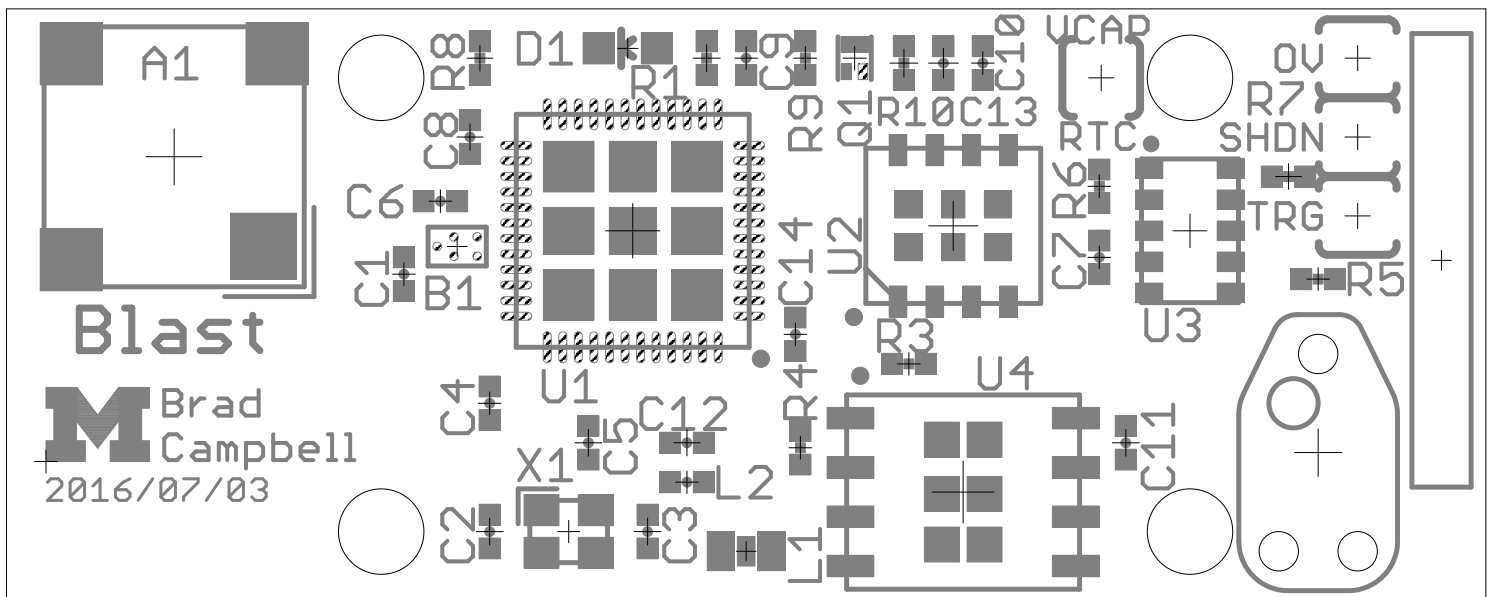


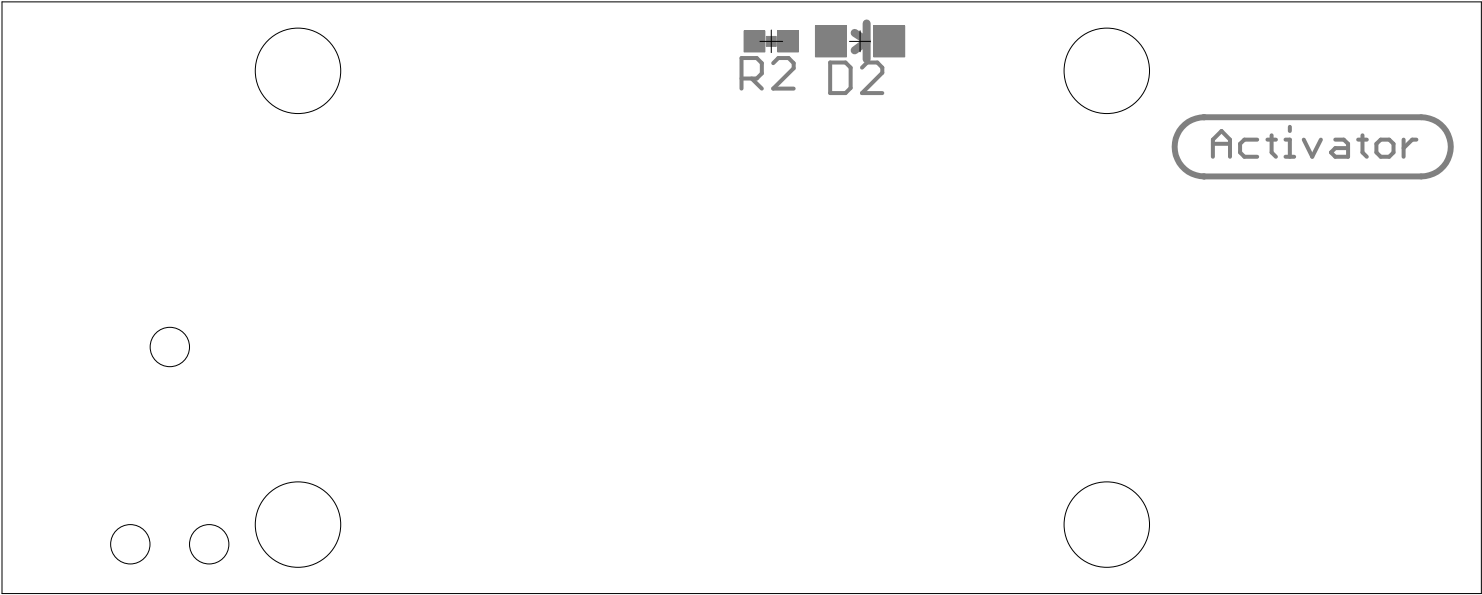
# Top Copper Layer



# Bottom Copper Layer

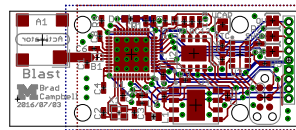




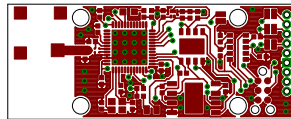




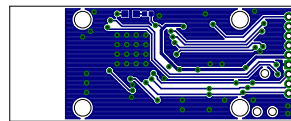
# Top and Bottom Layers 1:1 Scale



# Top Layer 1:1 Scale



# Bottom Copper Layer 1:1 Scale



blast

Note	Qty	Value	Device
	1	FRACTUS-2.4GHZ-FR05-S1-N-0-001	FRACTUS-2.4GHZ-FR05-S1-N-0-001
	1	BAL-NRF01D3	BAL-NRF01D3
	1	0.8pF	CAPACITOR
	2	12pF	CAPACITOR
	2	1nF	CAPACITOR
	1	2.2nF	CAPACITOR
DNP	1	10nF	CAPACITOR
	1	47nF	CAPACITOR
	2	0.1uF	CAPACITOR
DNP	1	0.1uF	CAPACITOR
	1	1uF	CAPACITOR
	1	2.2uF	CAPACITOR
	1	4.7uF	CAPACITOR
	2	BLUE	LED0603
	1	IMPULSE_GECKO_HEADER	IMPULSE_GECKO_HEADER
	1	10uH	INDUCTOR0603
	1	15nH	INDUCTOR0402
	1	MOSFET-NCHANNELXFDN-3	MOSFET-NCHANNELXFDN-3
	2	470	RESISTOR
	1	4.7k	RESISTOR
DNP	2	4.7k	RESISTOR
DNP	2	10k	RESISTOR
	1	12k	RESISTOR
	1	1M	RESISTOR
	1	4.7M	RESISTOR
	1	NRF51822QF	NRF51822QF
	1	FM25LBTFDN-8	FM25LBTFDN-8
DNP	1	RV-3049-C3	RV-3049-C3
DNP	1	FM25V20-DG	FM25V20-DG
	1	16MHz	TXC-8Y

blast

Package	Parts
FRACTUS-ANTENNA-FR05-S1-N-0-001	A1
BAL-NRF01D3	B1
0402_CAP	C1
0402_CAP	C2, C3
0402_CAP	C4, C5
0402_CAP	C6
0402_CAP	C7
0402_CAP	C8
0402_CAP	C9, C10
0402_CAP	C11
0402_CAP	C12
0402_CAP	C13
0402_CAP	C14
LED-0603	D1, D2
HEADER1X9/0.05IN	J1
0603_CAP	L1
0402_CAP	L2
XFDNF-3	Q1
0402_RES	R1, R2
0402_RES	R3
0402_RES	R4, R5
0402_RES	R6, R7
0402_RES	R8
0402_RES	R9
0402_RES	R10
QFN-48-6MM	U1
TDFN-8@1	U2
MICRO-CRYSTAL-C3	U3
TDFN-8/6MM	U4
TXC-8Y	X1

<b>Description</b>	<b>DIGIKEY</b>
Fractus Reach Xtend	
50 ohm nominal input / conjugate match balun to nRF51422-QFAA,	497-13637-1-ND
0402 Capacitor	490-6269-1-ND
0402 Capacitor	490-6197-1-ND
0402 Capacitor	490-1303-1-ND
0402 Capacitor	490-5419-1-ND
0402 Capacitor	445-1260-1-ND
0402 Capacitor	445-1264-1-ND
0402 Capacitor	445-4952-1-ND
0402 Capacitor	445-4952-1-ND
0402 Capacitor	1276-1513-1-ND
0402 Capacitor	445-3882-1-ND
0402 Capacitor	445-5947-1-ND
LEDs	160-1837-1-ND
Header on the impulse EPIC-esque board.	
	490-4025-1-ND
	587-1521-1-ND
Generic NMOS footprint	DMN2400UFB4-7DICT-ND
Resistor	RHM470CECT-ND
Resistor	RHM4.7KCECT-ND
Resistor	RHM4.7KCECT-ND
Resistor	RHM10KCECT-ND
Resistor	RHM12.0KCDCT-ND
Resistor	RHM1.0MCECT-ND
Resistor	541-4.7MJCT-ND
Multiprotocol Bluetooth® 4.0 low energy/2.4 GHz RF SoC	1490-1042-1-ND
IC FRAM 4KBIT 10MHZ 8SOIC	FM25L04B-DGRA-ND
The RV-3049-C3 is an ultra miniature Real-Time-Clock Module	
Cypress FRAM	FM25V20-DGRA-ND
2mmx1.6mm SMD Crystal	887-2003-1-ND

blast

**MOUSER**

**NEWARK RICHARDSON\_RFPD**

FR05-S1-N-0001B

511-BAL-NRF01D3

949-NRF51822-QFAC-R7

877-FM25L04B-DG

RV-3049-C3

877-FM25V20-DG