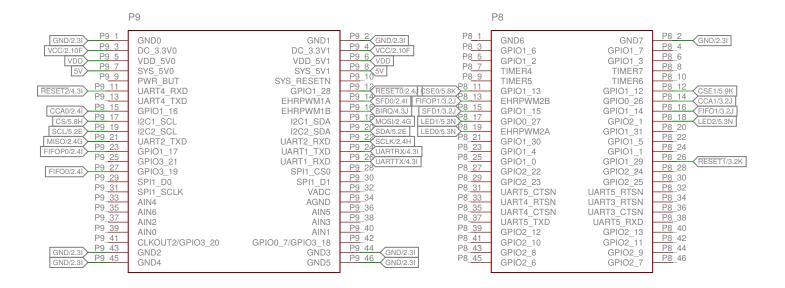
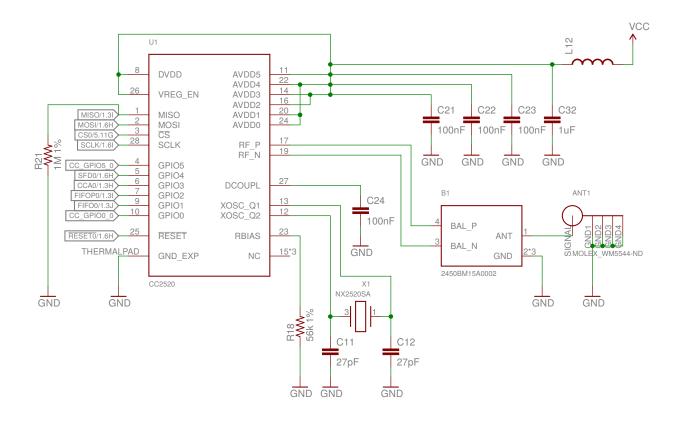
BeagleBone Black Header



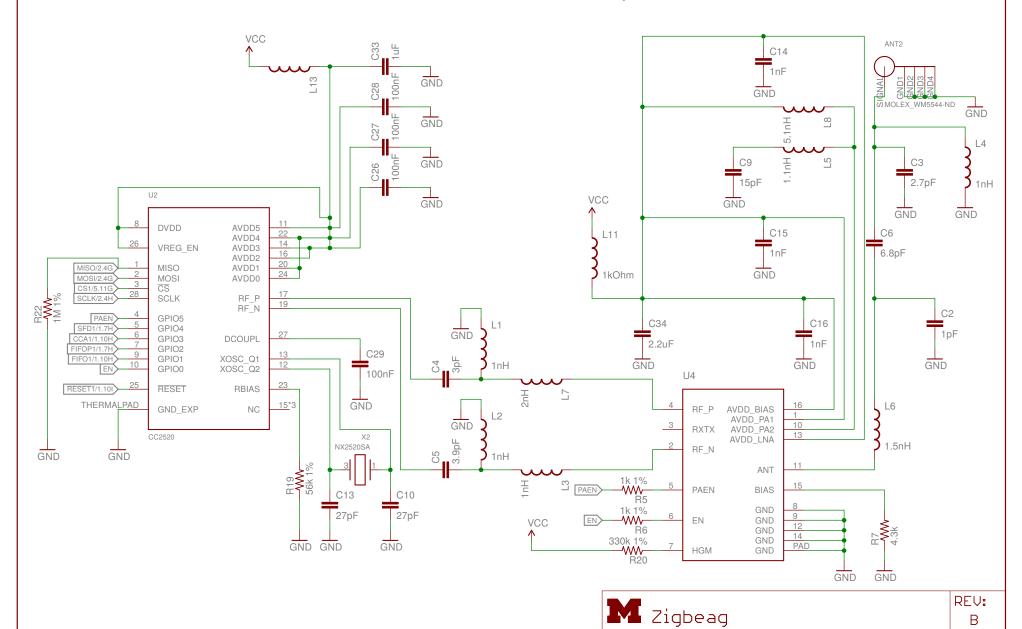
M Zigbeag	REU: B
Author: Neal Jackson	
Date: 11/20/14 2:20 AM	Sheet: 1/5

CC2520. Index: 0, no amplifier



M Zigbeag		REV: B
Author: Neal Jackson		
Date: 11/20/14 2:20 AM	Sheet: 2	2/5

CC2520. Index: 1, with amplifier

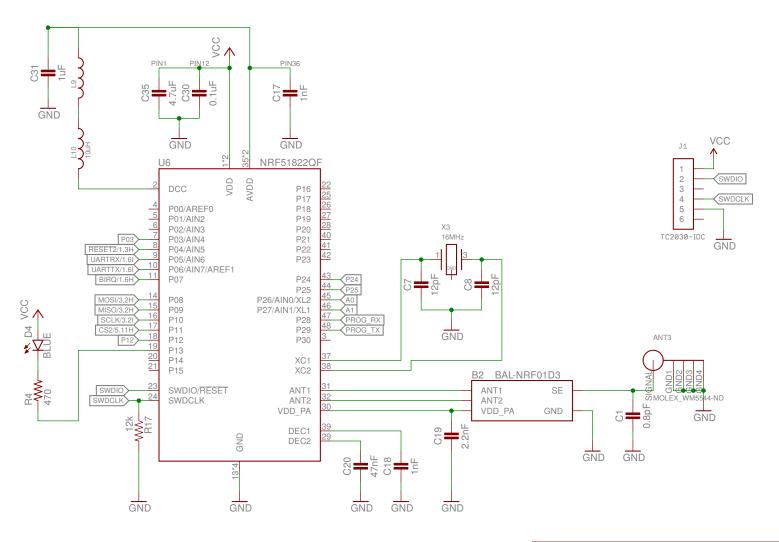


Author: Neal Jackson

Date: 11/20/14 2:20 AM

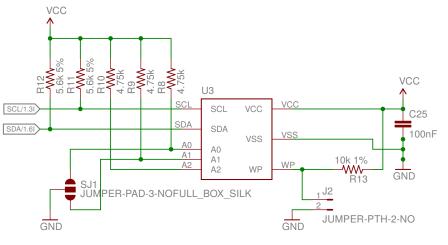
Sheet: 3/5

nRF51822

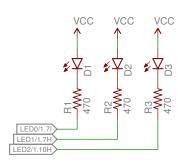


	REU:
M Zigbeag	В
Author: Neal Jackson	·
Date: 11/20/14 2:20 AM She	eet: 4/5

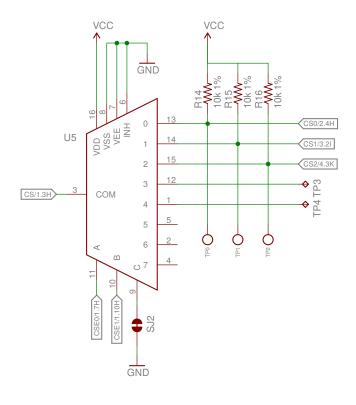
EEPROM



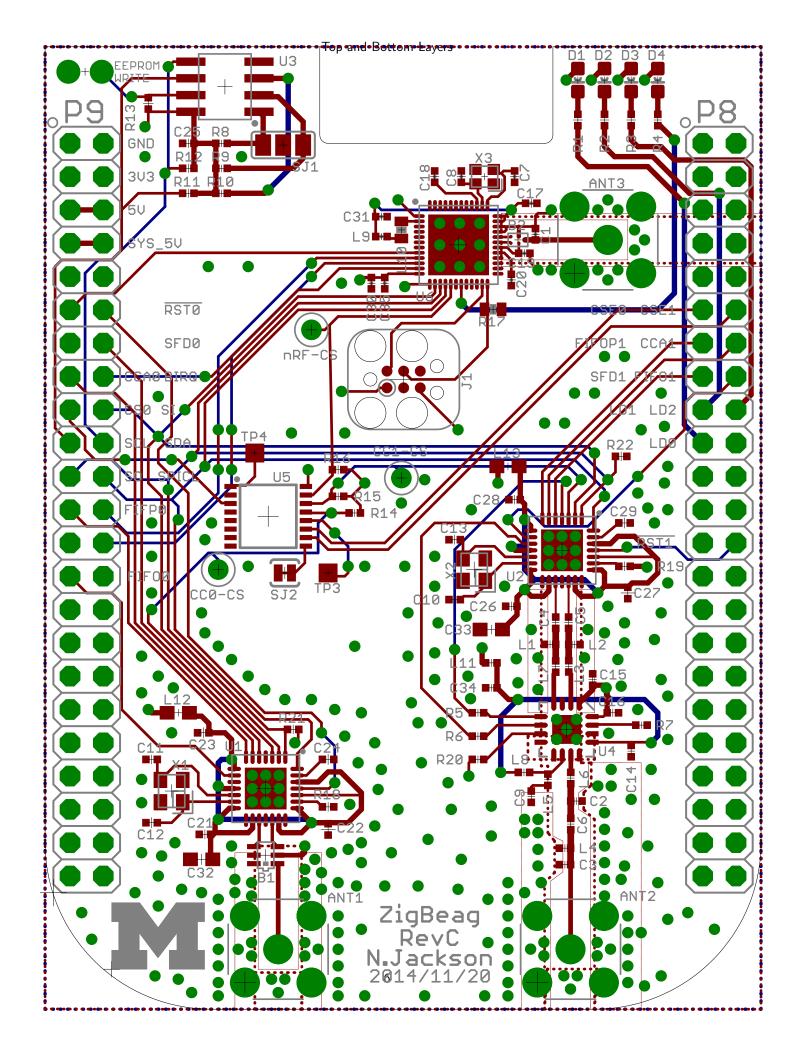
LEDs

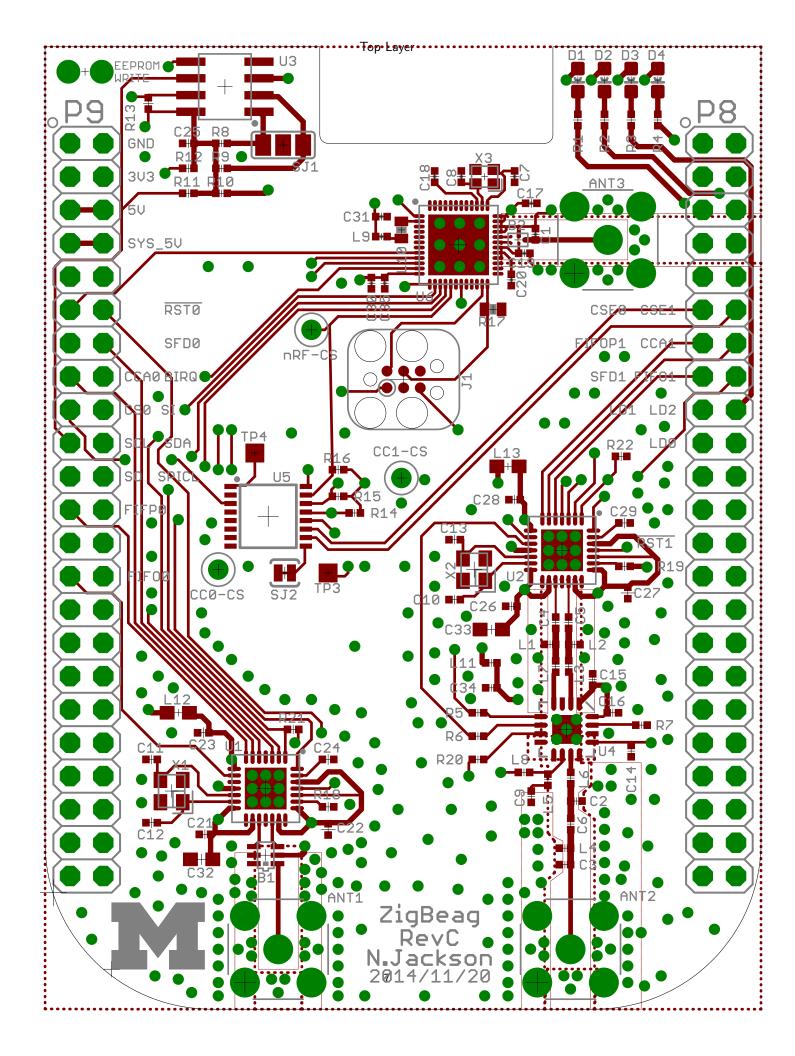


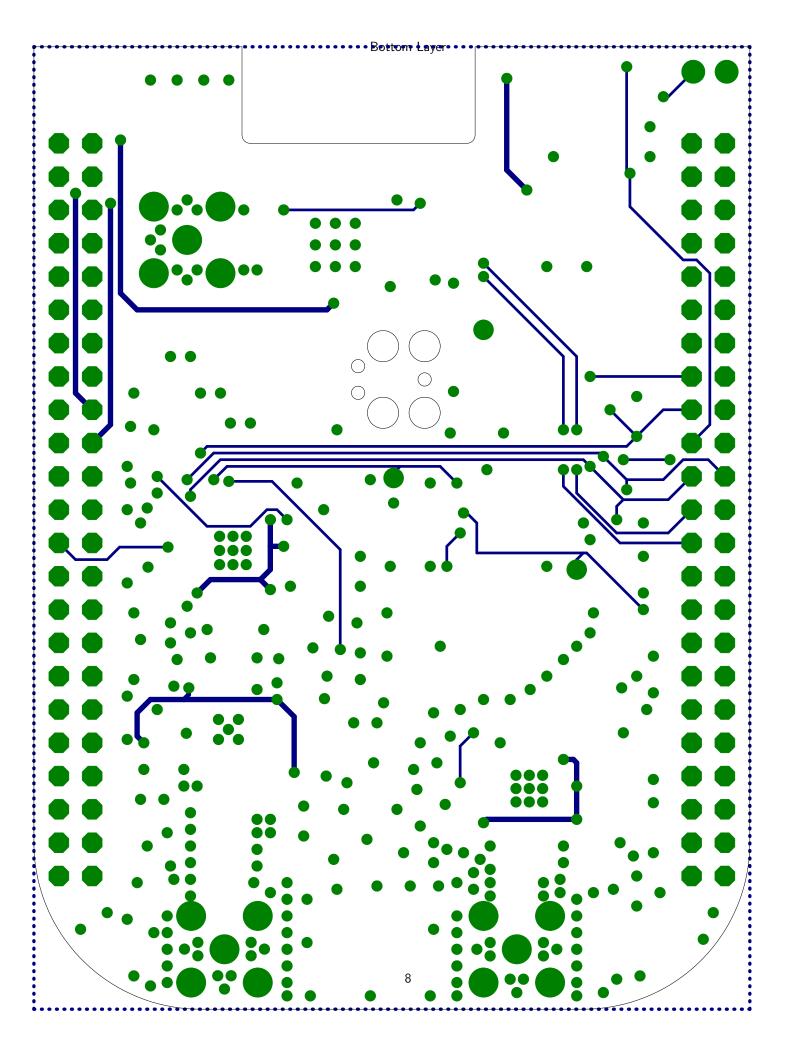
Chip Select DeMux

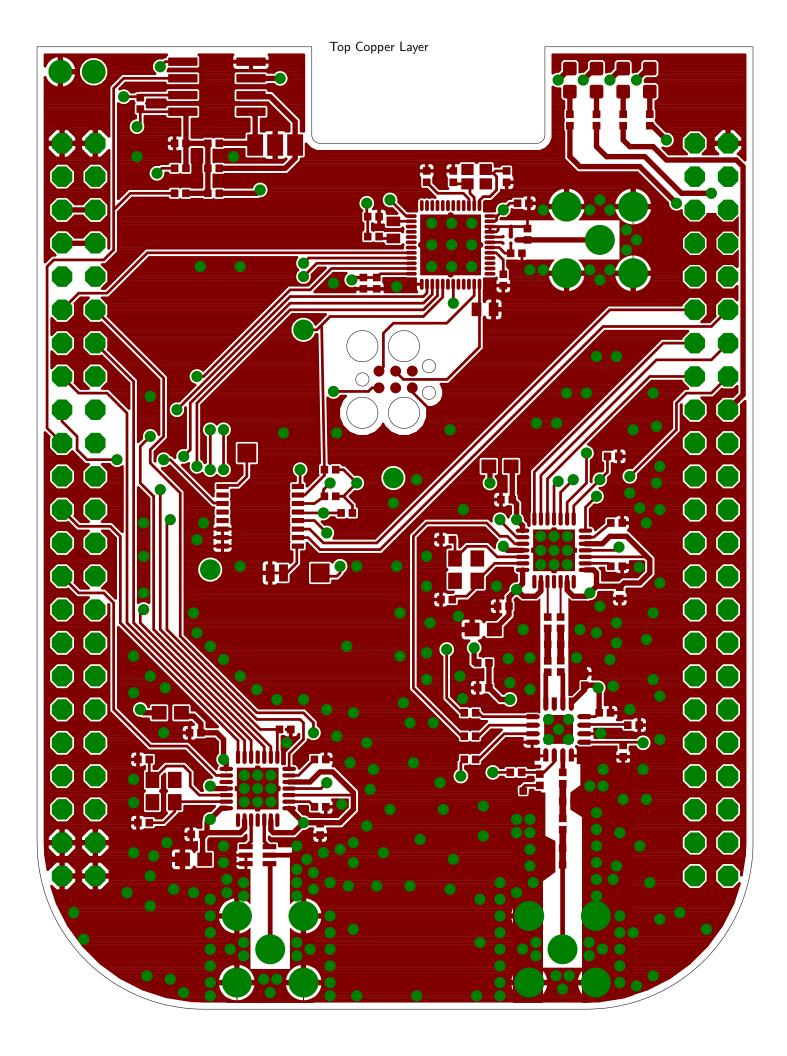


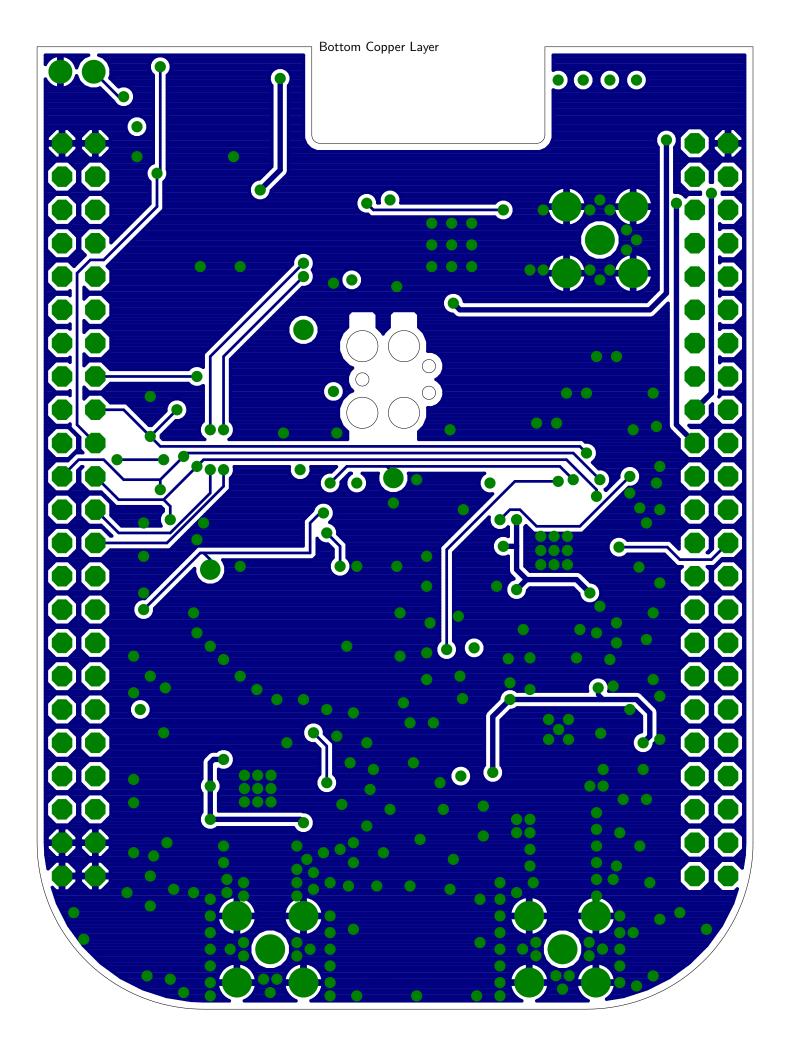
M Zigbeag		REV: B
Author: Neal Jackson		
Date: 11/20/14 2:20 AM	Sheet: 5	5/5

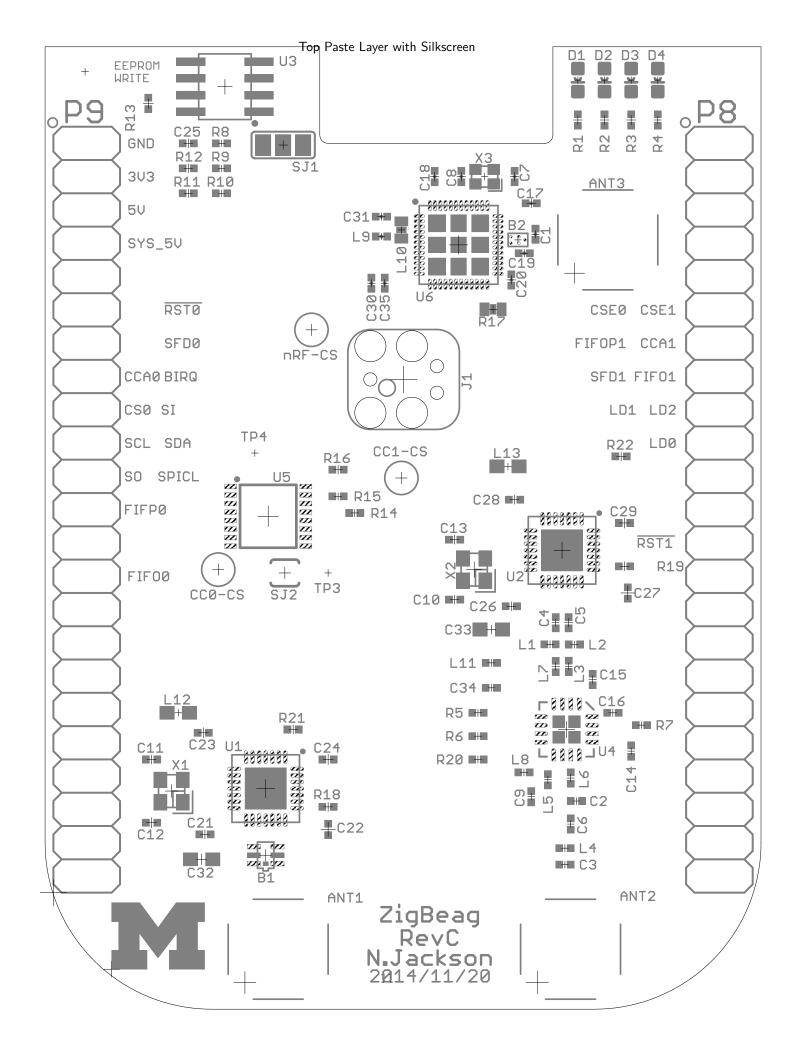


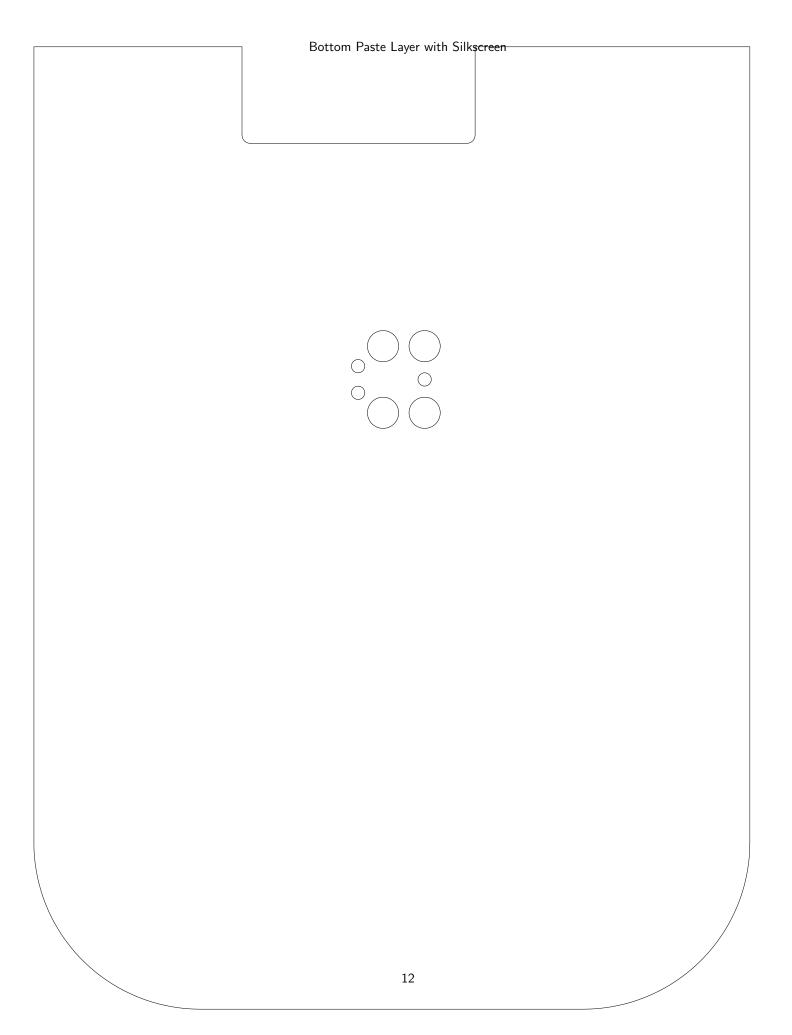


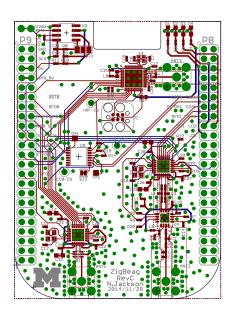


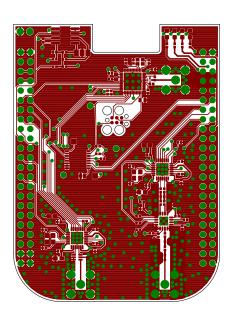


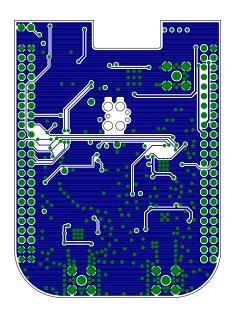












Qty	Value	Device
	3 MOLEX_WM5544-ND	MOLEX_WM5544-ND
	1 2450BM15A0002	2450BM15A0002
	1 BAL-NRF01D3	BAL-NRF01D3
	1 0.8pF	CAPACITOR
	1 1pF	C-EUC0402
	12.7pF	C-EUC0402
	1 3pF 1 3.9pF	C-EUC0402 C-EUC0402
	1 6.8pF	C-EUC0402 C-EUC0402
	2 12pF	CAPACITOR
	1 15pF	C-EUC0402
	4 27pF	C-EUC0402
	3 1nF	C-EUC0402
	2 1nF	CAPACITOR
	1 2.2nF	CAPACITOR
	1 47nF	CAPACITOR
	9 100nF	C-EUC0402
	10.1uF	CAPACITOR
	1 1uF	CAPACITOR
	2 1uF	C-EUC0603
	1 2.2uF	C-EUC0402
	1 4.7uF	CAPACITOR
	1 GREEN	LED0603
	1 RED	LED0603
	1 BLUE	LED0603
	1 YELLOW	LED0603
	1 JUMPER-PTH-2-NO	JUMPER-PTH-2-NO
	4 1nH	INDUCTOR0402
	1 1.1nH	INDUCTOR0402
	1 1.5nH	INDUCTOR0402
	1 2nH	INDUCTOR0402
	1 5.1nH	INDUCTOR0402
	1 15nH 1 10uH	INDUCTOR0402 INDUCTOR0603
	1 1k Ohm	INDUCTOR0003
	2 1k Ohm	INDUCTOR0603
	2 BBB_HEADERS	BBB HEADERS
	3 470 ohm	R-US_R0402
	2 1k 1%	R-US_R0402
	1 4.3k	R-US_R0402
	3 4.75k	R-US R0402
	25.6k 5%	R-US_R0402
	1 10k 1%	R-US_R0402
	1 12k	RESISTOR
	2 56k 1%	R-US_R0402
	1 330k 1%	R-US_R0402
	2 1M 1%	R-US_R0402
	3 TEST_POINT_0.040IN 2 CC2520	TEST_POINT_0.040IN CC2520
	1 CAT24C256WI-GT3	CAT24C256WI-GT3
	1 CC2591	CC2591
	1 CD4051B-53B	CD4051B-53B
	1 NRF51822QF	NRF51822QF
	2 NX2520SA	NX2520SA
	1 16MHz	TXC-8Y
		16

Parts ANT1, ANT2, ANT3 В1 B2 C1 C2 C3 C4 C5 C6 C7, C8 C9 C10, C11, C12, C13 C14, C15, C16 C17, C18 C19 C20 C21, C22, C23, C24, C25, C26, C27, C28, C29 C30 C31 C32, C33 C34 C35 D1 D2 D3 D4 J2 L1, L2, L3, L4 L5 L6 L7 L8 L9 L10 L11 L12, L13 P8, P9 R1, R2, R3, R4 R5, R6 R7 R8, R9, R10 R11, R12 R13, R14, R15, R16 R17 R18, R19 R20 R21, R22 TP0, TP1, TP2 U1, U2 U3 U4 U5 U6

X1, X2 X3

Description

Through-hole SMA Antenna

BALUN JTI MATCHED ZIGBEE

50 ohm nominal input / conjugate match balun to nRF51422-OFAA,

0402 Capacitor

Capacitor, 1p, 0402, NP0, +/-0.1pF 50V

Capacitor, 2p7, 0402, NP0, +-0.25pF, 50V

Capacitor, 3p, 0402, NP0, +-0.25pF, 50V

Capacitor, 3p9, 0402, NP0, +-0.25pF, 50V

Capacitor, 6p8, 0402, NP0, +-0.25pF 50V

0402 Capacitor

Capacitor, 15p, 0402, NP0, 5%, 50V

Capacitor, 27p, 0402, NP0, 5%, 50V

Capacitor, 1n, 0402, NP0, 5%, 50V

0402 Capacitor

0402 Capacitor

0402 Capacitor

Capacitor, 100n, 0402, X5R, 10%, 10V

0402 Capacitor

0402 Capacitor

Capacitor, 1u0, 0402, X5R, 10%, 6.3V

Capacitor, 2u2, 0402, X5R, 20%, 4V

0402 Capacitor

LEDs

LEDs

LEDs

LEDs

Inductor, 1n0, 0402, Monolithic type, +/-0.3 nH

Inductor, 1n1, 0402, Monolithic type, +/-0.3 nH

Inductor, 1n5, 0402, wire-wound type, +/-0.1 nH

Inductor, 2n0, 0402, +/-0.3 nH

Inductor, 5n1, 0402, +/-0.3 nH

EMI filter bead, 0402 1Kohms GHz Band Gen Use

EMI filter bead, 0603 1Kohms GHz Band Gen Use

2x23 Pin Header

RESISTOR, American symbol

Resistor

RESISTOR, American symbol

RESISTOR, American symbol

RESISTOR, American symbol

0.040in Test Point

2.4 GHZ IEEE 802.15.4/ZIGBEE® RF TRANSCEIVER

256kb Serial CMOS EEPROM

2.4GHz Range Extender

IC MUX/DEMUX 8x1 16TSSOP

Multiprotocol Bluetooth® 4.0 low energy/2.4 GHz RF SoC

CRYSTAL 32MHZ 10PF SMD

2mmx1.6mm SMD Crystal

DIGIKEY	SAMTEC	MAJOR LEAGUE
WM5544-ND		
712-1536-1-ND		
497-13637-1-ND		
490-6269-1-ND		
490-6206-1-ND		
490-5934-1-ND		
490-5872-1-ND		
490-1272-1-ND		
490-5949-1-ND		
490-6197-1-ND 490-5888-1-ND		
490-5869-1-ND 490-5869-1-ND		
490-3244-1-ND		
490-1303-1-ND		
490-5419-1-ND		
445-1264-1-ND		
490-1318-1-ND		
445-4952-1-ND		
1276-1513-1-ND		
490-1550-1-ND		
490-4518-1-ND		
445-5947-1-ND		
160-1834-1-ND		
160-1835-1-ND		
160-1837-1-ND		
160-1831-1-ND		
3M9447-ND		
490-2610-1-ND		
490-6567-1-ND		
490-6782-1-ND		
490-6569-1-ND		
490-6573-1-ND		
587-1521-1-ND		
490-4025-1-ND		
490-3999-1-ND		
490-1015-1-ND	CCM 122 02 T D	SSHO 133 D 09 C LE
RHM470CDCT-ND	SSW-123-03-T-D	SSHQ-123-D-08-G-LF
RHM1.00KCDCT-ND		
1276-4078-1-ND		
1276-4083-1-ND		
RHM5.6KCGCT-ND		
RHM10.0KCDCT-ND		
RHM12.0KCDCT-ND		
P56.0KLCT-ND		
RHM330KCFCT-ND		
RHM1.00MCDCT-ND		
5001K-ND		
296-22996-1-ND		
CAT24C256WI-GT3OSCT-ND		
296-23603-1-ND		
296-11993-1-ND		
1490-1031-1-ND		
644-1065-1-ND		
887-2003-1-ND		_
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