Bill of Materials for OSH	Chip V1.0	11/30/2015				
# Description	Designator	Footprint	Comment	Quantity	Supplier	Supplier Part Number
1 Chip Antenna 2.4 GHz	A1	AMCA31-2R450G-S1F-T	Chip Antenna, 2.450 GHz		1 Mouser	815-CA312R450GS1FT
2 Capacitor 12 pF 0402 50V NP0 5%	C1, C2	0402 CAP RouteThru	12 pF 0402		2 Digi-Key	1276-1178-1-ND
3 Capacitor 0.1 uF 0402 10 V X5R 10%	C3, C5, C8, C	090402 CAP RouteThru	0.1 uF 0402		4 Digi-Key	1276-1001-1-ND
4 Capacitor 1.0 nF 0402 25 V X7R 10%	C4	0402 CAP RouteThru	1.0 nF 0402		1 Newark	06R4614
5 Capacitor 47 nF 0402 16V X7R 10%	C6	0402 CAP RouteThru	47 nF 0402		1 Digi-Key	587-1225-1-ND
6 Capacitor 2.2 nF 0402 50 V X7R 10%	C7	0402 CAP RouteThru	2.2 nF 0402		1 Digi-Key	311-1037-1-ND
7 LED Red 630 nm 0402	D1	0402 LED Route Thru RED	Red LED 0402		1 Mouser	604-APHHS1005SURC
8 LED APHHS1005CGCK Green 570nm 0402	D2	0402 LED Route Thru GREEN	Green LED 0402		1 Mouser	604-APHHS1005CGCK
9 LED Blue 466 nm 0402	D3	0402 LED Route Thru BLUE	Blue LED 0402		1 Mouser	720-LBQH9G-N1P2-35-
10 DIP Pin 8 Etched	J1, J2	SIP 8 P2.54MM	DIP Pin 8		2 Fliptronics	OSHChip_Pin_8
11 FTSH-102-01-L-D	J3	HDR 2x2 1.27mm-Through Hole SWI	FTSH-102-01-L-D		1 Newark	01R3028
12 CPW 125mil , over ground plane, .062" board, 50 Ohm	L1	CPW_125	CPW 125mil		1 Fliptronics	CPW-125mil
13 Balun matched to WLCSP nRF61822	L2	BAL-ST-WLCSP	Balun WLCSP		1 Mouser	511-BAL-NRF02D3
14 Resistor 4.7K 0402 1/16 W 1%	R1, R2, R3	0402 Res Route Thru	4.7K 0402		3 Mouser	603-AC0402FR-074K7L
15 Multi-protocol Bluetooth Low Energy and 2.4GHz proprietary system-on-chip	U1	BGA62C40P9X9_383X383X55	nRF51822_CFAC WLCSP		1 Digi-Key	1490-1041-1-ND
16 16MHz Xtal, 2.5mmx2.0mm, 10ppm, 8 pF	X1	BT-XTAL_2520	16 MHz 2.5mm x 2.0mm		1 Digi-Key	SER3913CT-ND