

Sensor Puck Top Level Revised: Tuesday, September 30, 2014

BLE MODULE Revision: 2.0

Bill Of Materials October 6, 2014 16:48:05

Assembly notes: Glue a plastic cover over the Si1143 with a few dots of superglue. Cut pin 7 off the 10 pin header or remove it before assembly.

Iter	NI	Q	Reference	Value	Rating	Voltage	Tol	Type	PCB Footprint	Manufacturer Part Number	Manufacturer	Sub	Comments
1		1	BH1	20mm BATTERY HOLDER				BATTERY HOLDER	20MM_COIN_BATTERY HOLDER_SMD	BAT-HLD-001	LINX TECHNOLOGIES INC.		
2		1	C1	0.1uF		16V	±10%	X7R	C0402	C0402X7R160-104K	Venkel		
3		8	C2,C3,C4,C5,C6,C11,C16,C17	0.1uF		10V	±10%	X7R	C0402	C0402X7R100-104K	Venkel		
4		1	C7	10uF		6.3V	±20%	X5R	C0603	C0603X5R6R3-106M	Venkel		
5		1	C8	1.0uF		6.3V	±10%	X5R	C0402	C0402X5R6R3-105K	Venkel		
6		2	C9,C10	10pF		50V	±5%	C0G	C0402	C0402C0G500-100J	Venkel		
7		2	C12,C13	47uF		6.3V	±20%	X5R	C0805	C0805X5R6R3-476M	Venkel		
8		1	D1	598-8410-207CF	20mA				LED2-0606-AKAK	598-8410-207CF	Dialight		
9		1	J1	Header 2x5 TH				Header	CONN2X5-050	M50-3500542	Harwin		
10		1	L1	47uH	250mA		±20%	Shielded	IND-NR301X	NR 3012T 470M	Taiyo Yuden		
11		3	R3,R4,R5	10K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-1002F	Venkel		
12		3	R8,R9,R10	4.99K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-4991F	Venkel		
13		1	R11		47 1/16W		±1%	ThickFilm	R0402	CR0402-16W-47R0F	Venkel		
14		2	R13,R14	2K	1/16W		±1%	ThickFilm	R0402	CR0402-16W-2001F	Venkel		
15		4	SF4,SF5,SF6,SF7	BUMPER					RUBBER_FOOT_SMALL	SJ61A6	3M		
16		1	SW1	SW_SLIDE_2POS	0.5A @ 12VDC			SLIDE	SW-SPDT-NK236H	NK236H	Apem Inc.		
17		4	TPV1,TPV2,TPV5,TPV6	TPV				PCB Feature	VIA-TP	N/A	N/A		
18	NI	2	TP1,TP2	RED				Loop	TESTPOINT	151-207-RC	Kobiconn		
19		1	U1	BCM20732i		3.3V		Bluetooth LE	LGA48N6.5X6.5P0.5	BCM20732i	iDevices		
20		1	U2	EFM32G210		3.3V		MCU	QFN32M6X6P0.65E4.4	EFM32G210F128-QFN32	SiLabs		
21		1	U3	24MHz				FA-238	XTAL4N3.2X2.5-FA238	FA-238 24.0000MB	Epson		
22		1	U4	TS3310		5V		Power	DFN10N2.0P0.4E0.9X1.4	TS3310ITD1022	SiLabs		
23		1	U5	Optical Sensor				Prox/ALS	DFN10N2.2P1.0-PROX	SI1147-M01-GM	SiLabs		
24		1	U6	SI7021				Humidity and Temperature	DFN6M3X3P1.0E	SI7021-A10-IM1	SiLabs		