









Comment	Description	Designator	Footprint	LibRef	Quantity
0uF	Capacitor SMD 0603	C1, C4	C0603	CAP_0603	
00nF	Capacitor SMD 0603	C2, C9, C10, C15, C16, C17, C32, C33	C0603	CAP_0603	
upercapacitor	Supercapacitor	C3	CAP_POL_8x16x3.5	Supercapacitor	
0nF	Capacitor SMD 0603	C5, C13, C21, C26, C27	C0603	CAP_0603	
.7uF	Capacitor SMD 0603	C6, C18	C0603	CAP_0603	
uF	Capacitor SMD 0603	C7, C8, C14	C0603	CAP_0603	
6pF	Capacitor SMD 0603	C11, C12, C19, C20, C22	C0603	CAP_0603	
.5pF	Capacitor SMD 0603	C23	C0603	CAP_0603	
00pF	Capacitor SMD 0603	C24	C0603	CAP_0603	
BD	Capacitor SMD 0805	C25, C31	C0805	CAP_0603	
).8pF	Capacitor SMD 0603	C28	C0603	CAP_0603	
.2pF	Capacitor SMD 0603	C29, C30	C0603	CAP 0603	
170nF	Capacitor SMD 0603	C34	C0603	CAP 0603	
R2032	CR2032 Coin Cell Battery Holder	J1	BAT_CR2032-BS-6-1	CR2032-BS-6-1	
Plugin Terminal	Screw terminal or plug terminal for power	J2	2.54_pluggable_termi	Power_Connector	
Header 6X2	Header, 12-Pin, Dual row	J3	HEADER_6x2_2.54	Header 6x2	
SWD connector	Single Wire Debug	J4	HEADER_2x2_2.54	SWD connector	
SMA_EDGE_CONN	RF Connector SMA Female 50 Ohms 18 GHz PCB Edge Mount	J5	CON_SMA-EDGE-S	CON-SMA-EDGE-S	
DGE_CONNECTOR	Connector for sensor modules	J6, J7, J8, J9, J10	2.54mm_edge_connector	edge_connector	
UMPER_3PIN		JP1, JP2	HEADER_1x3_2.54	JUMPER_3PIN	
UMPER		JP3, JP4	HEADER_1x2_2.54	JUMPER	
22uH	Inductor SMD 1008	L1	IND_3.2_4	IND_1008	
inH	Inductor SMD 0603	L2	R0603	IND_0603	
2.5nH	Inductor SMD 0603	L3	R0603	IND_0603	
15uH	Inductor SMD 0603	L4	IND 3.2 4	IND 0603	
I.7M	Resistor SMD 0603	R1	R0603	RES 0603	
18M	Resistor SMD 0603	R2	R0603	RES_0603	
221k	Resistor SMD 0603	R3	R0603	RES_0603	
50k	Resistor SMD 0603	R4	R0603	RES_0603	
5.49M	Resistor SMD 0603	R5	R0603	RES_0603	
5.9M	Resistor SMD 0603	R6, R8	R0603	RES_0603	
5.04M	Resistor SMD 0603	R7	R0603	RES 0603	
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I.53M	Resistor SMD 0603	R9	R0603	RES_0603	
I.12M	Resistor SMD 0603	R10, R13	R0603	RES_0603	
8.92M	Resistor SMD 0603	R11	R0603	RES_0603	
00k	Resistor SMD 0603	R12	R0603	RES_0603	
.5k	Resistor SMD 0603	R14	R0603	RES_0603	
PTS645SM43SMTR92 FS	Switch	SW1	SW_SKRPACE010	SW-PB	
ADP5091	Ultralow Power Energy Harvester PMUs with MPPT and Charge Management and BAckup Supply	U1	LFCSP-24	ADP5091	
PS22919	5.5-V, 1.5-A, 90-mΩ load switch with adjustable output discharge	U2, U3	SC70-6	TPS22919	
TM32L431	Ultra-low-power Arm® Cortex®-M4 32-bit MCU+FPU, 100DMIPS, up to 128KB flash, 40KB SRAM(LQFP48)	U4	QFPN-48	STM32L431	
X1280	Low power LoRa transceiver operating at 2.4GHz with ranging capability	U5	QFN-24_4x4_0.5	SX1280	
32.768kHz	Crystal	Y1	CRYSTAL_SX-3215	CRYSTAL_1	
BMHz	Crystal	Y2	CRYSTAL_ECX- 32_3.2x2.5x0.8 - duplicate	Crystal	