

BOM_SensorNode_2025-07-07

ID	Name	Designator	Quantity	Manufacturer Part #	Manufacturer	Supplier	Supplier Part #	Source Link	Notes
1	220nF	C1	1	CC1H224ZC1GD3F8A3100	Dersonic(德创)	LCSC	C2761732	https://www.lcsc.com/product-detail/C2761732.html	
2	100nF	C2,C3,C4,C5	4	CC1H104MC1FD3F6C10MF	Dersonic(德创)	LCSC	C254085	https://www.lcsc.com/product-detail/C254085.html	
3	BM04B-SRSS-TB(LF)(SN)	CN1	1	BM04B-SRSS-TB(LF)(SN)	JST	LCSC	C160390	https://www.lcsc.com/product-detail/C160390.html	Surface Mount - not req'd
4	1N5819_C2474	D1,D2	2	1N5819	MDD(宸达半导体)	LCSC	C2474	https://www.lcsc.com/product-detail/C2474.html	
5	DCInputConn	DC1	1	DC005-2.0MM	SOFNG	LCSC	C111567	https://www.lcsc.com/product-detail/C111567.html	5.5/2.5 Barrel Jack Center Pos
6	20pin-HDR	H1,H2	2	X5511FV-20-C70D30-1000	XKB Connectivity(中国星坤)	LCSC	C2905423	https://www.lcsc.com/product-detail/C2905423.html	H1/H2 used to mount Pico W
7	2.54-1*4P母	H3	1	2.54-1*4P母	BOOMELE(博穆精密)	LCSC	C2718488	https://www.lcsc.com/product-detail/C2718488.html	I2C Pin Header
8	Header-Male-2.54_1x6	H4	1	2.54-1x6P直针	BOOMELE(博穆精密)	LCSC	C37208	https://www.lcsc.com/product-detail/C37208.html	MUST Short Pins PIN/POUT
9	JUMPER2	J1,J2	2	Jumper2	null	LCSC	C124375	https://www.lcsc.com/product-detail/C124375.html	2-pin Jumper Headers
10	JUMPER3	J3	1	Jumper3	null	LCSC	C49257	https://www.lcsc.com/product-detail/C49257.html	3-pin Jumper Header
11	LED-GRN	LED1	1		EDGELEEC	Amazon	Click here	https://www.amazon.com/dp/B07PXYZS3P	LED Cable connects here
12	4.7KΩ	R1,R4	2	MFR-25FRF52-100R	YAGEO(国巨)	LCSC	C120071	https://www.lcsc.com/product-detail/C120071.html	
13	1KΩ	R2	1	MF1/4W-220Ω±1% T	CCO(千志电子)	LCSC	C2894606	https://www.lcsc.com/product-detail/C2894606.html	
14	100Ω	R3	1	MFR-25FRF52-100R	YAGEO(国巨)	LCSC	C2894648	https://www.lcsc.com/product-detail/C2894648.html	
15	WJ126V-5.0-2P	S1	1	WJ126V-5.0-2P	KANGNEX(康奈克斯电气)	LCSC	C8404	https://www.lcsc.com/product-detail/C8404.html	2-Cond Term Blk
16	WJ126V-5.0-3P	S2	1	WJ126V-5.0-3P	KANGNEX(康奈克斯电气)	LCSC	C8401	https://www.lcsc.com/product-detail/C8401.html	3-Cond Term Blk
17	SK12D07VG5	SW1,SW2,SW3	3	SK12D07VG5	SHOU HAN(首韩)	LCSC	C431548	https://www.lcsc.com/product-detail/C431548.html	
18	CD4013BE	U1	1	CD4013BE	TI(德州仪器)	LCSC	C507169	https://www.lcsc.com/product-detail/C507169.html	
19	7805_C2843718	U2	1	7805	PUOLOP(迪浦)	LCSC	C305416	https://www.lcsc.com/product-detail/C305416.html	5V Regulator
20	Pico W	N/A	1	SC0919	RaspberryPi Foundation	DigiKey	2648-SC0919-ND	https://www.digikey.com/en/products/detail/raspberry-pi/SC0919/18713315	
21	Power Supply Option 1	N/A	1		Various	Amazon	Pick One	https://www.amazon.com/dp/B0DYNZ8X55	12V or 9V supplies can be used 1A current, 5.5/2.5 adapter Center positive Either will work pick one
	Power Supply Option 2	N/A	1		Various	Amazon	Pick One	https://www.amazon.com/dp/B0DYP12V3W	
22	Jumper Block	N/A	4		Various	Amazon	Click here	https://www.amazon.com/dp/B09WTVZCWY	For J1,J2,J3,H4