

Reference	Value	Footprint	Qty	DNP	Manufacturer	Manufacturer Part no.	Vendor 1	Vendor 1 Part no.	Vendor 2	Vendor 2 Part no.	Comment
BT401	CR2032	Battery:BatteryHolder_Keystone_3002_1x2032	1		Keystone Electronics	2898	Digikey	36-2898-ND	LCSC	C6379018	
C201, C303, C304, C404, C502	0.1µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	5	DNP	Samsung Electro-Mechanics	CL21B104KCFNNNE	Digikey	1276-6840-1-ND	LCSC	C28233	Best fit from the JLCPCB "Basic" components
C202, C204, C205, C301, C306, C309, C401, C503	10µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	8		Samsung Electro-Mechanics	CL21A106KOQNNNE	Digikey	1276-1096-1-ND	LCSC	C1713	Best fit from the JLCPCB "Basic" components
C203, C305, C505	1µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	3		Samsung Electro-Mechanics	CL21B105KPFNNNE	Digikey	1276-1275-2-ND	LCSC	C107367	Best fit from the JLCPCB "Basic" components
C206, C207, C208, C302, C307, C308, C402, C504, C701, C702, C703, C704, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C901, C902, C903, C904, C905, C906, C907, C908, C909, C910, C911, C1001, C1002, C1003, C1004, C1005, C1006, C1007, C1008, C1009, C1010, C1011, C1101, C1102, C1103, C1104, C1105, C1106, C1107, C1108, C1109, C1110, C1111, C1201, C1202, C1203, C1204, C1205, C1206, C1207, C1208, C1209, C1210, C1211, C1301, C1302, C1303, C1304, C1305, C1306, C1307, C1308, C1309, C1310, C1311, C1401, C1402, C1403, C1404, C1405, C1406, C1407, C1408, C1409, C1410, C1411, C1501, C1502, C1503, C1504, C1505, C1506, C1507, C1508, C1509, C1510, C1511, C1601, C1602, C1603, C1604, C1605, C1606, C1607, C1608, C1609, C1610, C1611, C1701, C1702, C1703, C1704, C1705, C1706, C1707, C1708, C1709, C1710, C1711	0.1µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	122		Samsung Electro-Mechanics	CL21B104KCFNNNE	Digikey	1276-6840-1-ND	LCSC	C28233	Best fit from the JLCPCB "Basic" components
C403	1µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	1	DNP	Samsung Electro-Mechanics	CL21B105KPFNNNE	Digikey	1276-1275-2-ND	LCSC	C107367	Best fit from the JLCPCB "Basic" components
C501	10µF	Capacitor_SMD:C_0805_2012Metric_Pad1.18x1.45mm_HandSolder	1	DNP	Samsung Electro-Mechanics	CL21A106KOQNNNE	Digikey	1276-1096-1-ND	LCSC	C1713	Best fit from the JLCPCB "Basic" components
D201	SP0503BAHTG	Package_TO_SOT_SMD:SOT-143_Handsoldering	1		Littelfuse Inc.	SP0503BAHTG	Digikey	F2715CT-ND	LCSC	C7074	
D202, D203	green	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder	2		Lite-On Inc.	LTST-C171GKT	Digikey	160-1423-1-ND	LCSC	C913075	
D301	red	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder	1		Lite-On Inc.	LTST-C171KRKT	Digikey	160-1427-1-ND	LCSC	C284871	
D302	orange	LED_SMD:LED_0805_2012Metric_Pad1.15x1.40mm_HandSolder	1		Lite-On Inc.	LTST-C170KFKT	Digikey	160-1413-1-ND	LCSC	C284931	
D701, D702, D703, D704, D801, D802, D803, D804, D805, D806, D807, D808, D809, D810, D811, D901, D902, D903, D904, D905, D906, D907, D908, D909, D910, D911, D1001, D1002, D1003, D1004, D1005, D1006, D1007, D1008, D1009, D1010, D1011, D1101, D1102, D1103, D1104, D1105, D1106, D1107, D1108, D1109, D1110, D1111, D1201, D1202, D1203, D1204, D1205, D1206, D1207, D1208, D1209, D1210, D1211, D1301, D1302, D1303, D1304, D1305, D1306, D1307, D1308, D1309, D1310, D1311, D1401, D1402, D1403, D1404, D1405, D1406, D1407, D1408, D1409, D1410, D1411, D1501, D1502, D1503, D1504, D1505, D1506, D1507, D1508, D1509, D1510, D1511, D1601, D1602, D1603, D1604, D1605, D1606, D1607, D1608, D1609, D1610, D1611, D1701, D1702, D1703, D1704, D1705, D1706, D1707, D1708, D1709, D1710, D1711	WS2812B	LED_SMD:LED_WS2812B_PLCC4_5.0x5.0mm_P3.2mm	114	-	-	WS2812B	Digikey	1568-COM-16347CT-ND	LCSC	C22461793	
J101	Conn_01x08_Pin	Connector_PinHeader_2.54mm:PinHeader_1x08_P2.54mm_Vertical	1	DNP	-	-	-	-	-	-	
J201	USB_C_Receptacle_US B2.0_16P	Connector_USB:USB_C_Receptacle_GCT_USB4105-xx-A_16P_TopMnt_Horizontal	1		GCT	USB4105-GF-A	Digikey	2073-USB4105-GF-ACT-ND	LCSC	C3020560	
Q201, Q202	NPN BJT	Package_TO_SOT_SMD:SOT-23_Handsoldering	2	-	-	-	Digikey	353-MMS8050-H-TPCT-ND	LCSC	C49581	General purpose NPN transistor
Q601	BSS138	Package_TO_SOT_SMD:SOT-23_Handsoldering	1	-	-	BSS138	Digikey	BSS138CT-ND	LCSC	C518792	General purpose N-channel MOSFET
R201, R208, R209	0R	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	3		YAGEO	RC0805JR-070RL	Digikey	311-0.0ARCT-ND	LCSC	C96345	Best fit from the JLCPCB "Basic" components
R202, R203, R303	5.1k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	3		YAGEO	RC0805FR-075K1L	Digikey	311-5.10KCRCT-ND	LCSC	C84375	Best fit from the JLCPCB "Basic" components
R204, R205, R401, R404, R405, R503	0R	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	6	DNP	YAGEO	RC0805JR-070RL	Digikey	311-0.0ARCT-ND	LCSC	C96345	Best fit from the JLCPCB "Basic" components
R206	22.1k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1		YAGEO	RC0805FR-0722K1L	Digikey	311-22.1KCRCT-ND	LCSC	C273840	
R207	47.5k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	1		YAGEO	RC0805FR-0747K5L	Digikey	311-47.5KCRCT-ND	LCSC	C137519	
R210, R213, R214, R304, R504	1k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	5		YAGEO	RC0805FR-071KL	Digikey	311-1.00KCRCT-ND	LCSC	C95781	Best fit from the JLCPCB "Basic" components
R211, R212, R301, R505, R601, R602	10k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	6		YAGEO	RC0805FR-0710KL	Digikey	311-10.0KCRCT-ND	LCSC	C84376	Best fit from the JLCPCB "Basic" components
R302, R402, R403, R501	10k	Resistor_SMD:R_0805_2012Metric_Pad1.20x1.40mm_HandSolder	4	DNP	YAGEO	RC0805FR-0710KL	Digikey	311-10.0KCRCT-ND	LCSC	C84376	Best fit from the JLCPCB "Basic" components
R502	LDR07	OptoDevice:R_LDR_5.1x4.3mm_P3.4mm_Vertical	1	DNP	-	-	-	-	-	-	
SW301, SW302	SW_Push	Button_Switch_SMD:SW_SPST_PTS810	2		C&K;	PTS810 SJK 250 SMTR LFS	Digikey	CKN10503CT-ND	LCSC	C221896	
U201	CP2102N-Axx-xQFN24	Package_DFN_QFN:QFN-24-1EP_4x4mm_P0.5mm_EP2.6x2.6mm_ThermalVias	1		Silicon Labs	CP2102N-A02-GQFN24R	Digikey	336-5888-2-ND	LCSC	C969151	
U301	ESP32-C3-WROOM-02	RF_Module:ESP32-C3-WROOM-02	1		Espressif Systems	ESP32-C3-WROOM-02-N4	Digikey	1965-ESP32-C3-WROOM-02-N4TR-ND	LCSC	C2934560	
U302	TLV1117LV33	Package_TO_SOT_SMD:SOT-223-3_TabPin2	1		Texas Instruments	TLV1117LV33DCYR	Digikey	296-28778-2-ND	LCSC	C15578	
U401	DS3231M	Package_SO:SOIC-16W_7.5x10.3mm_P1.27mm	1		Analog Devices Inc./Maxim Integrated	DS3231M+TRL	Digikey	DS3231M+TRLCT-ND	LCSC	C9866	LCSC, only has the compatible DS3231SN in stock
U501	BH1750xxx-xx	Package_TO_SOT_SMD:HVSOF6	1		Rohm Semiconductor	BH1750FVI-TR	Digikey	BH1750FVICT-ND	LCSC	C78960	