

Comment	Description	Designator	Footprint	LibRef	Quantity
9.1uF 50V	50V 100PF 10V+20%+80%0603 Multilayer Ceramic Capacitors MLCC - SMD/SMT RCHS	C1, C101, C102, C103, C104, C105, C107, C201, C202, C201	0603_cap	Cap_9.1uF_0603_50V	10
	10V 100PF 50V+10% 0603Multilayer Ceramic Capacitors MLCC - SMD/SMT RCHS	C2, C100, C200	0603_cap	Cap_10uF_0603_10V	3
CAP CER 100PF 10V XBR0603	100PF ±1% 10V Ceramic Capacitor XBR0603 (1608 Metric)	C3	0603_cap	CAP_CER_100PF_10V_0603	1
22uF 16V	16V 22uF XBR-20% 0603Multilayer Ceramic Capacitors MLCC - SMD/SMT RCHS	C4, C5, C6, C7	0605_cap	Cap_22uF_0605_16V	4
CAP CER 470uF 4V XBR1812	470uF ±20% 4V Ceramic Capacitor XBR1812 (4532 Metric)	C106	CAP_1812	CAP_CER_470uF_4V_1812	1
CAP CER 4.7uF 4V XBR0603	4.7uF ±10% 4V Ceramic Capacitor XBR0603 (1608 Metric)	C300	0603_cap	CAP_CER_4.7uF_4V_0603	1
30V 3A	40V Independent 3A 500mV@5A 30mA Schottky Diodes RCHS	D1, D2, D3, D4, D5	30MA	D_Schottky_40V_3A_50MA	5
2.5V	LED GREEN CLEAR 30x5 SMD	D100, D304	0805_LED	LED_0805_Green	2
2V	LED RED CLEAR 30x5 SMD	D101, D303	0805_LED	LED_0805_RED	2
40V 1A	DIODES SCHOTTKY 40V 1ASMD122P	D102, D103, D104, D105	SOD_123	D_Schottky_40V_1A_SOD_123P	4
600H42A	2A 1 100mΩ 6002000MA 40% 0603 Ferrite Beads RCHS	FB100, FB200, FB201	0603_fb	FB_60_0603_2A	3
USB C	5A USB 3.1 Type-C Surface Mount 10P Female - 40°C+85°C Type-C 30A USB Connectors RCHS	200, 300	CONN_USB_C_16P_PA	CONN_USB_TYPEC_16P	2
CONNECTION DE PLUS	2P05-2MM	J1	CONN_2x1_1H_2MM	Conn_2x1_1H_2MM	1
CON	2P05-2MM	J102, J101	CONN_2x1_1H_2MM	Conn_2x1_1H_2MM	2
RP50075B-MODIQR	2P05-2MM	J102	CONN_2x1_1H_2MM	Conn_2x1_1H_2MM	1
FIXED IND 4.7uH 6A 33mΩ SMD 0603	6A 4.7uH Molded Inductor ±20% 6A 33mΩ SMD 7x6.6mm Fixed Inductors RAHS	L1, L2	INDUCTOR_4.7uH	Inductor_4.7uH_6A_33mΩ	2
PCH	MC9FET PCH 20V 3A SOT23	Q100, Q101	SOT_23_3	Q_PNPN_20V_3A_SOT23_3	2
NCH	MC9FET NCH 20V SOT23	Q102, Q103	SOT_23_3	Q_PNPN_20V_3.2A_SOT23_3	2
10k 1/10W	RES SMD 10k OHM ±5% 1/10W 0603	R1, R2, R103, R107, R108, R114, R115, R117, R203, R204, R201, R204	0603_res	Res_10k_0603_1/10W	12
33k2 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 33.2kΩ 0603 Chip Resistor - Surface Mount RCHS	R2, R111, R200	0603_res	Res_33k2_0603_1/10W	3
RES 100K OHM 1% 1/10W 0603	100K Ohms ±1% 0.1W 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film	R4	0603_res	Res_100k_0603_1/10W	1
RES SMD 110K OHM 1% 1/10W 0603	110K Ohms ±1% 0.1W 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film	R5	0603_res	Res_110k_0603_1/10W	1
RES SMD 15K OHM 1% 1/10W 0603	15K Ohms ±1% 0.1W 1/10W Chip Resistor 0603 (1608 Metric) Thick Film	R6	0603_res	Res_15k_0603_1/10W	1
150R 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 150Ω 0603 Chip Resistor - Surface Mount RCHS	R100, R104	0603_res	Res_150R_0603_1/10W	2
100R 1/10W	RES SMD 100 OHM ±5% 1/10W 0603	R101, R102	0603_res	Res_100R_0603_1/10W	2
101R 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 101Ω 0603 Chip Resistor - Surface Mount RCHS	R105, R106	0603_res	Res_101R_0603_1/10W	2
4k7 1/10W	100mW Thick Film Resistor 75V ±1% 4.7kΩ 0603 Chip Resistor - Surface Mount RCHS	R109, R110	0603_res	Res_4k7_0603_1/10W	2
1k 1/10W	RES SMD 1K OHM ±5% 1/10W 0603	R112, R113, R202, R205, R202	0603_res	Res_1k_0603_1/10W	5
49k9 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 49.9kΩ 0603 Chip Resistor - Surface Mount RCHS	R116	0603_res	Res_49k9_0603_1/10W	1
RES 5.1K OHM 1% 1/10W 0603	5.1K Ohms ±1% 0.1W 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film	R201, R202, R207, R208	RES_0603	RES_5.1K_0603	4
73k2 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 73.2kΩ 0603 Chip Resistor - Surface Mount RCHS	R203	0603_res	Res_73k2_0603_1/10W	1
120R 1/10W	100mW Thick Film Resistor 75V ±100ppm/°C ±1% 120Ω 0603 Chip Resistor - Surface Mount RCHS	R205, R206	0603_res	Res_120R_0603_1/10W	2
5v	SWITCH TACTILE SPST NO/0.05A 12V	SW101, SW200, SW201	Sw_PU8H_4.5x4.5x6.0mm	Sw_PU8H_4.5x4.5x6.0mm	3
TPS9B4201DDCR	IC REG BUCK ADJ 4A SOT23	U1, U2	SOT_23_6	DCDC_5V_BUCK_4A_SOT23_6, DCDC_5V_BOOST_4A_SOT23_6	2
STM32F303C8TETR	IC MCU 32BIT 64KB FLASH 48LQFP	U100	LQFP48_7x7mm	IC_STM32F303C8TETR_LQFP48_7x7mm	1
SENSOR OPT SLOT PHOTOTRAN PCB MOUNT	950nm 1.4V D34 Photointerrupters - Slot Type - Transistor Output RAHS	U101, U102	RP4-441C1E	RP4-441C1E	2
ESP32-C3-WROOM-02-N4	RF 160MHz 802.15.4 PCB TH SMD	U200	ESP32-C3-WROOM-02-N4	ICU_ESP32-C3-WROOM-02-N4	1
USBLC6-25D6	1V500V 6.25V 1TV SOT23-6	U201, U201	SOT_23_6	TVS_5.25V_201_SOT23_6	2
CP1125N-A02-027N025	IC USB TO UART BRIDGE QFN60	U300	WQFN_20_P_30x30MM	IC_30A_USB_UART_BRIDGE_20x20MM	1