

Comment	Description	Designator	Footprint	Quantity	PartNumber	HelpURL
Ceramic capacitor, 100pF, X7R, ±10%, 16V, 0603, -55...+125°C		C1	CAP: 0603	1	CC0603KRX7R7BB104	<a href="https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998">https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998</a>
Ceramic capacitor, 100nF, Y5V, ±10%, 50V, 0603, -55...+125°C		C2, C3, C4, C5, C6, C28, C29, C30, C31	CAP: 0603	9	0603F104Z250	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html</a>
Ceramic capacitor, 20pF, X7R, ±10%, 6V, 0603, -55...+125°C		C7, C9	CAP: 0603	2	CC0603KRX7R7BB104	<a href="https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998">https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998</a>
Ceramic capacitor, 12pF, C0G, ±5%, 50V, 0603, -55...+125°C		C8, C10	CAP: 0603	2	TC0603COG120I500CT	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_CCTC-TC0603COG120I500CT_C376767.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_CCTC-TC0603COG120I500CT_C376767.html</a>
Ceramic capacitor, 1µF, X5R, ±10%, 16V, 0603, -55...+125°C		C11	CAP: 0603	1	VI0603G105KXJCW1BC	<a href="https://datasheet.lcsc.com/szlcsc/Vishay-Intertech-VI0603G105KXJCW1BC_C272771.pdf">https://datasheet.lcsc.com/szlcsc/Vishay-Intertech-VI0603G105KXJCW1BC_C272771.pdf</a>
Ceramic capacitor, 4.7µF, X5R, ±10%, 6.3V, 0603, -55...+125°C		C12	CAP: 0603	1	GRM188R60J475KE19D	<a href="https://datasheet.lcsc.com/szlcsc/Murata-Electronics-GRM188R60J475KE19D_C71631.pdf">https://datasheet.lcsc.com/szlcsc/Murata-Electronics-GRM188R60J475KE19D_C71631.pdf</a>
Ceramic capacitor, 6.8nF, X7R, ±10%, 50V, 0805, -55...+125°C		C13, C14	CAP: 0805	2	CC0805KRX7R9BB682	<a href="https://www.digikey.com/product-detail/en/yageo/CC0805KRX7R9BB682/311-1142-1-ND/303052">https://www.digikey.com/product-detail/en/yageo/CC0805KRX7R9BB682/311-1142-1-ND/303052</a>
Ceramic capacitor, 10nF, X7R, ±10%, 25V, 0603, -55...+125°C		C15	CAP: 0603	1	0603B103K250	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K250_C163179.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K250_C163179.html</a>
Ceramic capacitor, 18pF, C0G, ±5%, 50V, 0603, -55...+125°C		C16, C17	CAP: 0603	2	CL10C180JB8NNNC	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_SAMSUNG_CL10C180JB8NNNC_18pF-180-5-50V_C1647.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_SAMSUNG_CL10C180JB8NNNC_18pF-180-5-50V_C1647.html</a>
Tantalum capacitor, 10µF, 16V, ±10%, 0.50Ω, case B (3528), -55...+125°C		C18	CAP: TANTAL-A	1	TPSB106K016R0500	<a href="https://lscsc.com/product-detail/Tantalum-Capacitors_AVX_TPSB106K016R0500_10uF-106-10-16V_C124892.html">https://lscsc.com/product-detail/Tantalum-Capacitors_AVX_TPSB106K016R0500_10uF-106-10-16V_C124892.html</a>
Ceramic capacitor, 0.1µF, Y5V, ±20%, 50V, 0603, -20...+80°C		C19, C22, C24, C25, C32	CAP: 0603	5	0603F104Z250	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html</a>
Ceramic capacitor, 22nF, X7R, ±10%, 16V, 0603, -55...+125°C		C20	CAP: 0603	1	0603B223K160CT	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B223K160CT_C384784.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B223K160CT_C384784.html</a>
Ceramic capacitor, 4.7µF, X7R, ±10%, 6.3V, 0603, -55...+125°C		C21	CAP: 0603	1	CL10B475KQ8NQNC	<a href="https://lscsc.com/product-detail/Others_Samsung-Electro-Mechanics_CL10B475KQ8NQNC_Samsung-Electro-Mechanics-CL10B475KQ8NQNC_C107368.html">https://lscsc.com/product-detail/Others_Samsung-Electro-Mechanics_CL10B475KQ8NQNC_Samsung-Electro-Mechanics-CL10B475KQ8NQNC_C107368.html</a>
Ceramic capacitor, 10nF, X7R, ±10%, 16V, 0603, -55...+125°C		C23	CAP: 0603	1	0603B103K160	<a href="https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K160_C163173.html">https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K160_C163173.html</a>
Tantalum capacitor, 100µF, 6.3V, ±20%, case B (3528), -55...+125°C		C26, C27	CAP: TANTAL-A	2	T520B107M006ATE040	<a href="https://lscsc.com/product-detail/Tantalum-Capacitors_KEMET_T520B107M006ATE040_100uF-107-20-6-3V_C116740.html">https://lscsc.com/product-detail/Tantalum-Capacitors_KEMET_T520B107M006ATE040_100uF-107-20-6-3V_C116740.html</a>
DC/DC converter, isolator, 5V 200mA, -40...+105°C, SIP-4	Isolated Module DC DC Conve	D1	MOD: SIP-4 (B0505S)	1	TME 0505S	<a href="https://www.tracopower.com/products/tme.pdf">https://www.tracopower.com/products/tme.pdf</a>
IC RS485 transceiver, 16Mbps, Half-duplex, 4.5...5.5V, -40...+85°C, 8-SOIC	RS485	D2	ISO7321CDR	1	MAX13488EESA+T	<a href="https://datasheet.lcsc.com/szlcsc/Maxim-Integrated-MAX13488EESA-T_C156258.pdf">https://datasheet.lcsc.com/szlcsc/Maxim-Integrated-MAX13488EESA-T_C156258.pdf</a>
ISO7321CDR		D3	ISO7321CDR	1	ISO7321CDR	<a href="https://datasheet.lcsc.com/szlcsc/Texas-Instruments-TI-ISO7321CDR_C187919.pdf">https://datasheet.lcsc.com/szlcsc/Texas-Instruments-TI-ISO7321CDR_C187919.pdf</a>
IC microcontroller, 32-Bit, Cortex-M3, 72MHz, 64KB, 20KB, 2...3.6V, -40...+85°C, 48-LQFP	Cortex-M3	D4	48-LQFP	1	STM32F103C8T6	<a href="https://www.digikey.com/product-detail/en/stmicroelectronics/STM32F103C8T6/497-17666-1-ND/7804402">https://www.digikey.com/product-detail/en/stmicroelectronics/STM32F103C8T6/497-17666-1-ND/7804402</a>
IC memory, EEPROM, 64KB (8192x8), 400 kHz, I2C, 1.7...5.5V, -40...+85°C, 8-SOIC	EEPROM	D5	8-SOIC	1	AT24C64N	<a href="http://ww1.microchip.com/downloads/en/deviceoc/doc0336.pdf">http://ww1.microchip.com/downloads/en/deviceoc/doc0336.pdf</a>
Linear voltage regulator, input 3.9...18V, 0.6V, output 3.3V, 1.2A, -40...+85°C, SOT223	Linear voltage regulator	D6	SOT223	1	LDL1117533R	<a href="https://www.digikey.com/product-detail/en/stmicroelectronics/LDL1117533R/497-17239-1-ND/7102079">https://www.digikey.com/product-detail/en/stmicroelectronics/LDL1117533R/497-17239-1-ND/7102079</a>
RGB led: 3528		D7	RGB Led: 3528	1		
HDC1080DMBR	Integrated Circuit	IC1	SON100P300X300X8	1		
W5500		IC2	48-LQFP	1		
Filter beads, 0603, 1A, -55...+125°C		L1	IND: 0603	1	CBW160808U121T	<a href="https://lscsc.com/product-detail/Ferrite-Beads-And-Chips_120R-25_C139175.html">https://lscsc.com/product-detail/Ferrite-Beads-And-Chips_120R-25_C139175.html</a>
Resistor film, 0R, ±5%, 0805, 0.125W, -55...+125°C		R1, R33, R34, R35	RES: 0805	4	RC0805JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185">https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185</a>
Resistor film, 120R, ±0.1%, 1206, 0.1W, -55...+125°C		R2	RES: 1206	1	TC0625B1200T5E	<a href="https://datasheet.lcsc.com/szlcsc/1904031804_Uniroyal-Elec-TC0625B1200T5E_C191714.pdf">https://datasheet.lcsc.com/szlcsc/1904031804_Uniroyal-Elec-TC0625B1200T5E_C191714.pdf</a>
Resistor film, 4.7k, ±5%, 0603, 0.1W, -55...+125°C		R3, R6, R36	RES: 0603	3	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 1k, ±5%, 0603, 0.1W, -55...+125°C		R4, R20, R21	RES: 0603	3	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 10k, ±5%, 0603, 0.1W, -55...+125°C		R5, R25, R27, R28, R29	RES: 0603	5	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 1.5k, ±5%, 0603, 0.1W, -55...+125°C		R7	RES: 0603	1	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 18R, ±5%, 0603, 0.1W, -55...+125°C		R8, R9	RES: 0603	2	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 1M, ±1%, 0603, 1/16W, -55...+125°C		R10	RES: 0603	1	AR03FTC1004	<a href="https://lscsc.com/product-detail/Others_Viking-Tech-AR03FTC1004_C234360.html">https://lscsc.com/product-detail/Others_Viking-Tech-AR03FTC1004_C234360.html</a>
Resistor film, 499R, ±1%, 0603, 0.1W, -55...+125°C		R11, R12, R17, R18	RES: 0603	4	ARG03FTC49R9	<a href="https://lscsc.com/product-detail/Others_Viking-Tech-ARG03FTC49R9_C218051.html">https://lscsc.com/product-detail/Others_Viking-Tech-ARG03FTC49R9_C218051.html</a>
Resistor film, 0R, ±5%, 0603, 0.1W, -55...+125°C		R13, R14, R15, R16	RES: 0603	4	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 10R, ±0.5%, 0603, 0.1W, -55...+125°C		R19	RES: 0603	1	AR03D1DX0100	<a href="https://lscsc.com/product-detail/Others_Viking-Tech-AR03D1DX0100_C319920.html">https://lscsc.com/product-detail/Others_Viking-Tech-AR03D1DX0100_C319920.html</a>
Resistor film, 470R, ±5%, 0603, 0.1W, -55...+125°C		R22, R23, R24	RES: 0603	3	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 12.4k, ±0.1%, 0603, 1/16W, -55...+125°C		R26	RES: 0603	1	RC0603JR-07100RL	<a href="https://lscsc.com/product-detail/High-Precision-Low-TCR-SMD-Resistors_Uniroyal-Elec-TC0325B1242T5E_C139128.html">https://lscsc.com/product-detail/High-Precision-Low-TCR-SMD-Resistors_Uniroyal-Elec-TC0325B1242T5E_C139128.html</a>
Resistor film, 1M, ±5%, 0603, 0.1W, -55...+125°C		R30	RES: 0603	1	RC0603JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644">https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644</a>
Resistor film, 4.7k, ±5%, 0805, 0.125W, -55...+125°C		R31, R32	RES: 0805	2	RC0805JR-07100RL	<a href="https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185">https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185</a>
Tactile button, 6x6mm		SB1	Button 3x4x2.5	1	FSM2J5MAATR	<a href="https://www.digikey.com/product-detail/en/te-connectivity-alcoswitch-switches/FSM2J5MAATR/450-1792-1-ND/3503931">https://www.digikey.com/product-detail/en/te-connectivity-alcoswitch-switches/FSM2J5MAATR/450-1792-1-ND/3503931</a>
Zener diode, 12A, SOT-23, -55...+150°C		VD1	SOT23	1	SM712	<a href="https://datasheet.lcsc.com/szlcsc/DOWO-SM712_C293966.pdf">https://datasheet.lcsc.com/szlcsc/DOWO-SM712_C293966.pdf</a>
LED green		VD2	LED: 0603B	1		
Schottky diode, 40V, 3A, 0.7V, SMA(DO-214AC), -55...+150°C		VD3	DIODE: SMA	1	S534AD	<a href="https://lscsc.com/product-detail/Schottky-Barrier-Diodes-SBD_S534AD_C84504.html">https://lscsc.com/product-detail/Schottky-Barrier-Diodes-SBD_S534AD_C84504.html</a>
Connector, 3pin, 9.53mm, 300VAC, 25A		X1	XX2EDGK-5.08-03	1	6PCV-03-006	<a href="https://www.digikey.com/products/en?keywords=6PCV-03-006">https://www.digikey.com/products/en?keywords=6PCV-03-006</a>
Connector, 4pin, 9.53mm, 300VAC, 25A		X2, X3, X8, X9, X10, X12	JST_125_04	6	6PCV-04-006	<a href="https://www.digikey.com/products/en?keywords=6PCV-03-006">https://www.digikey.com/products/en?keywords=6PCV-03-006</a>
Connector, 2pin, 2.54mm, 500VAC, 3A		X4	JST_125_02	1	PLS-2	<a href="https://www.chipdip.ru/product/pls-2">https://www.chipdip.ru/product/pls-2</a>
USB micro B		X5	microUsb	1	C40943	<a href="https://lscsc.com/product-detail/USB-Connectors_Jing-Extension-of-the-Electronic-Co-Jing-Extension-of-the-Electronic-Co-micro-5PFour-legged-board7-2There-is-a-column-card-point0-4m_C40943.html">https://lscsc.com/product-detail/USB-Connectors_Jing-Extension-of-the-Electronic-Co-Jing-Extension-of-the-Electronic-Co-micro-5PFour-legged-board7-2There-is-a-column-card-point0-4m_C40943.html</a>
Connector, 3pin, 9.53mm, 300VAC, 25A		X6, X11	JST_125_03	2	6PCV-03-006	<a href="https://www.digikey.com/products/en?keywords=6PCV-03-006">https://www.digikey.com/products/en?keywords=6PCV-03-006</a>
Ethernet RJ-45 connector		X7	CON: HR911105A	1	HR911105A	
Crystal, 8MHz, 20pF, ±10ppm, case 3225, -40...+85°C		Z1	OSC: 3225-4P	1	SMD-3225-4P	<a href="https://lscsc.com/product-detail/SMD-Crystal-Resonators_XTY-7325-0800A2010-00_C389817.html">https://lscsc.com/product-detail/SMD-Crystal-Resonators_XTY-7325-0800A2010-00_C389817.html</a>
Crystal, 32.768kHz, 12.5pF, ±20ppm, case 3215, -40...+85°C		Z2	OSC: 3215	1	Q13FC1350000400	<a href="https://lscsc.com/product-detail/SMD-Crystal-Resonators_Seiko-Epson-Q13FC1350000400_C32346.html">https://lscsc.com/product-detail/SMD-Crystal-Resonators_Seiko-Epson-Q13FC1350000400_C32346.html</a>
Crystal, 25MHz, 18pF, ±10ppm, case 3225, -30...+85°C		Z3	OSC: 3225	1	7M25000046	<a href="https://lscsc.com/product-detail/TXC-Corp-7M25000046_C337588.html">https://lscsc.com/product-detail/TXC-Corp-7M25000046_C337588.html</a>