

Comment	Designator	Footprint	Quantity	PartNumber	HelpURL
Ceramic capacitor, 100pF, X7R, ±10%, 16V, 0603, -55...+125°C	C1	CAP: 0603	1	CC0603KRX7R7BB104	https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998
Ceramic capacitor, 100nF, Y5V, ±10%, 50V, 0603, -55...+125°C	C2, C3, C4, C5, C6, C8, C29, C30, C31	CAP: 0603	9	0603F104Z250	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html
Ceramic capacitor, 20pF, X7R, ±10%, 6V, 0603, -55...+125°C	C7, C9	CAP: 0603	2	CC0603KRX7R7BB104	https://www.digikey.com/product-detail/en/yageo/CC0603KRX7R7BB104/311-1088-1-ND/302998
Ceramic capacitor, 12pF, C0G, ±5%, 50V, 0603, -55...+125°C	C8, C10	CAP: 0603	2	TCC0603COG120J500CT	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_CCTC-TCC0603COG120J500CT_C376767.html
Ceramic capacitor, 1µF, X5R, ±10%, 16V, 0603, -55...+125°C	C11	CAP: 0603	1	VJ0603G105KXJCW18C	https://datasheet.lcsc.com/szlcsc/Vishay-Intertech-VJ0603G105KXJCW18C_C272771.pdf
Ceramic capacitor, 4.7µF, X5R, ±10%, 6.3V, 0603, -55...+125°C	C12	CAP: 0603	1	GRM188R60J475KE19D	https://datasheet.lcsc.com/szlcsc/Murata-Electronics-GRM188R60J475KE19D_C71631.pdf
Ceramic capacitor, 6.8nF, X7R, ±10%, 50V, 0805, -55...+125°C	C13, C14	CAP: 0805	2	CC0805KRX7R9BB682	https://www.digikey.com/product-detail/en/yageo/CC0805KRX7R9BB682/311-1142-1-ND/303052
Ceramic capacitor, 10nF, X7R, ±10%, 25V, 0603, -55...+125°C	C15	CAP: 0603	1	0603B103K250	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K250_C163179.html
Ceramic capacitor, 18pF, C0G, ±5%, 50V, 0603, -55...+125°C	C16, C17	CAP: 0603	2	CL10C180JB8NNNC	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_SAMSUNG_CL10C180JB8NNNC_18pF-180-5-50V_C1647.html
Tantalum capacitor, 10µF, 16V, ±10%, 0.50hm, case B (3528), -55...+125°C	C18	CAP: TANTAL-A	1	TPSB106K016R0500	https://lscsc.com/product-detail/Tantalum-Capacitors_AVX_TPSB106K016R0500_10uF-106-10-16V_C124892.html
Ceramic capacitor, 0.1µF, Y5V, ±20%, 50V, 0603, -20...+80°C	C19, C22, C24, C25, C32	CAP: 0603	5	0603F104Z250	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603F104Z250_C125841.html
Ceramic capacitor, 22nF, X7R, ±10%, 16V, 0603, -55...+125°C	C20	CAP: 0603	1	0603B223K160CT	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B223K160CT_C384784.html
Ceramic capacitor, 4.7µF, X7R, ±10%, 6.3V, 0603, -55...+125°C	C21	CAP: 0603	1	CL10B475KQ8NQNC	https://lscsc.com/product-detail/Others_Samsung-Electro-Mechanics_CL10B475KQ8NQNC_Samsung-Electro-Mechanics-CL10B475KQ8NQNC_C107368.html
Ceramic capacitor, 10nF, X7R, ±10%, 16V, 0603, -55...+125°C	C23	CAP: 0603	1	0603B103K160	https://lscsc.com/product-detail/Multilayer-Ceramic-Capacitors-MLCC-SMD-SMT_Walsin-Tech-Corp-0603B103K160_C163173.html
Tantalum capacitor, 100µF, 6.3V, ±20%, , case B (3528), -55...+125°C	C26, C27	CAP: TANTAL-A	2	T520B107M006ATE040	https://lscsc.com/product-detail/Tantalum-Capacitors_KEMET_T520B107M006ATE040_100uF-107-20-6-3V_C116740.html
DC/DC converter, isolator, 5V 200mA, -40...+105°C, SIP-4	D1	MOD: SIP-4 (B0505S)	1	TME 05055	https://www.tracopower.com/products/tme.pdf
IC RS485 transceiver, 16Mbps, Half-duplex, 4.5...5.5V, -40...+85°C, 8-SOIC	D2	MAX13488EESA+T	1	MAX13488EESA+T	https://datasheet.lcsc.com/szlcsc/Maxim-Integrated-MAX13488EESA-T_C156258.pdf
ISO7321CDR	D3	ISO7321CDR	1	ISO7321CDR	https://datasheet.lcsc.com/szlcsc/Texas-Instruments-TI-ISO7321CDR_C187919.pdf
IC microcontroller, 32-Bit, Cortex-M3, 72MHz, 64KB, 20KB, 2...3.6V, -40...+85°C, 48 LQFP	D4	48-LQFP	1	STM32F103C8T6	https://www.digikey.com/product-detail/en/stmicroelectronics/STM32F103C8T6TR/497-17666-1-ND/7804402
IC memory, EEPROM, 64KB (8192x8), 400 kHz, I2C, 1.7...5.5V, -40...+85°C, 8-SOIC	D5	8-SOIC	1	AT24C64N	http://ww1.microchip.com/downloads/en/devicedoc/doc336.pdf
Linear voltage regulator, input 3.9...18V, 0.6V, output 3.3V, 1.2A, -40...+85°C, SOT223	D6	SOT223	1	LDL1117533R	https://www.digikey.com/product-detail/en/stmicroelectronics/LDL1117533R/497-17239-1-ND/7102079
RGB led: 3528	D7	RGB Led: 3528	1		
HDC1080DMBR	IC1	HDC1080DMBR	1		
W5500	IC2	48-LQFP	1		
Filter beads, , 0603, 1A, -55...+125°C	I1	IND: 0603	1	CBW160808U121T	https://lscsc.com/product-detail/Ferrite-Beads-And-Chips_120R-25_C139175.html
Resistor film, 0R, ±5%, 0805, 0.125W, -55...+125°C	R1, R33, R34, R35, R37	RES: 0805	5	RC0805JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185
Resistor film, 120R, ±0.1%, 1206, 0.1W, -55...+125°C	R2	RES: 1206	1	TC0625B1200T5E	https://datasheet.lcsc.com/szlcsc/1904031804_Uniroyal-Elec-TC0625B1200T5E_C191714.pdf
Resistor film, 4.7k, ±5%, 0603, 0.1W, -55...+125°C	R3, R6, R36	RES: 0603	3	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 1k, ±5%, 0603, 0.1W, -55...+125°C	R4, R20, R21	RES: 0603	3	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 10k, ±5%, 0603, 0.1W, -55...+125°C	R5, R25, R27, R28, R29	RES: 0603	5	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 1.5k, , 0603, 0.1W, -55...+125°C	R7	RES: 0603	1	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 18R, , 0603, 0.1W, -55...+125°C	R8, R9	RES: 0603	2	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 1M, ±1%, 0603, 1/16W, -55...+125°C	R10	RES: 0603	1	AR03FTC1004	https://lscsc.com/product-detail/Others_Viking-Tech-AR03FTC1004_C234360.html
Resistor film, 499R, ±1%, 0603, 0.1W, -55...+125°C	R11, R12, R17, R18	RES: 0603	4	ARG03FTC49R9	https://lscsc.com/product-detail/Others_Viking-Tech-ARG03FTC49R9_C218051.html
Resistor film, 0R, ±5%, 0603, 0.1W, -55...+125°C	R13, R14, R15, R16	RES: 0603	4	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 10R, ±0.5%, 0603, 0.1W, -55...+125°C	R19	RES: 0603	1	AR03D7DX0100	https://lscsc.com/product-detail/Others_Viking-Tech-AR03D7DX0100_C319920.html
Resistor film, 470R, ±5%, 0603, 0.1W, -55...+125°C	R22, R23, R24	RES: 0603	3	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 12.4k, ±0.1%, 0603, 1/16W, -55...+125°C	R26	RES: 0603	1	RC0603JR-07100RL	https://lscsc.com/product-detail/High-Precision-Low-TCR-SMD-Resistors_Uniroyal-Elec-TC0325B1242T5E_C139128.html
Resistor film, 1M, ±5%, 0603, 0.1W, -55...+125°C	R30	RES: 0603	1	RC0603JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0603JR-07100RL/311-100GRCT-ND/729644
Resistor film, 4.7k, ±5%, 0805, 0.125W, -55...+125°C	R31, R32	RES: 0805	2	RC0805JR-07100RL	https://www.digikey.com/product-detail/en/yageo/RC0805JR-07100RL/311-100ARCT-ND/731185
Tactile button, 6x6mm	SB1	Button 3x4x2.5	1	FSM2J5MAATR	https://www.digikey.com/product-detail/en/te-connectivity-alcoss-switches/FSM2J5MAATR/450-1792-1-ND/3503931
Zener diode, , 12A, , , SOT-23, -55...+150°C	VD1	SOT23	1	SM712	https://datasheet.lcsc.com/szlcsc/DOWO-SM712_C293966.pdf
LED, *, *, *, -55...+150°C	VD2	LED: 0603B	1		
Schottky diode, 40V, 3A, 0.7V, , SMA(DO-214AC), -55...+150°C	VD3	DIODE: SMA	1	S534AD	https://lscsc.com/product-detail/Schottky-Barrier-Diodes-SBD_S534AD_C84504.html
Connector, 3pin, 9.53mm, 300VAC, 25A	X1	XX2FDGK-5-08-03	1	6PCV-03-006	https://www.digikey.com/products/en?keywords=6PCV-03-006
Connector, 4pin, 9.53mm, 300VAC, 25A	X2, X3, X8, X9, X10, X12	JST_125_04	6	6PCV-04-006	https://www.digikey.com/products/en?keywords=6PCV-03-006
Connector, 2pin, 2.54mm, 500VAC, 3A	X4	JST_125_02	1	PLS-2	https://www.chipdip.ru/product/pls-2
USB micro B	X5	microUsb	1	C40943	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
Connector, 3pin, 9.53mm, 300VAC, 25A	X6, X11	JST_125_03	2	6PCV-03-006	https://www.digikey.com/products/en?keywords=6PCV-03-006
Ethernet RJ-45 connector	X7	CON: HR91105A	1	HR91105A	
Crystal, 8MHz, 20pF, ±10ppm, case 3225, -40...+85°C	Z1	OSC: 3225	1	SMD-3225-4P	https://lscsc.com/product-detail/SMD-Crystal-Resonators_XTY-7325-0800A2010-00_C389817.html
Crystal, 32.768KHz, 12.5pF, ±20ppm, case 3215, -40...+85°C	Z2	OSC: 3215	1	Q13FC1350000400	https://lscsc.com/product-detail/SMD-Crystal-Resonators_Seiko-Epson-Q13FC1350000400_C32346.html
Crystal, 25MHz, 18pF, ±10ppm, case 3225, -30...+85°C	Z3	OSC: 3225	1	7M25000046	https://lscsc.com/product-detail/_TXC-Corp-7M25000046_C337588.html