

Reference	Value	Footprint	Description	Datasheet	Supplier link	#	Use Qty	Buy Qty	Unit price	Ext price (Use Qty * Unit price)	NOTE
C46,C47	15pF	Capacitor_SMD:C_0402_1005Metric	15 pF ±5% 50V Ceramic Capacitor C0G, NP0 0402 (1005 Metric)	https://www.yag	https://www.digi		2	1000	\$0.01	\$0.02	
C67,C68	18pF	Capacitor_SMD:C_0603_1608Metric	18 pF ±5% 50V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)	https://www.yag	https://www.digi		2	1000	\$0.01	\$0.02	
C69,C70	27pF	Capacitor_SMD:C_0603_1608Metric	27 pF ±5% 50V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)	https://content.l	https://www.digi		2	1000	\$0.01	\$0.02	
C63	200pF	Capacitor_SMD:C_0603_1608Metric	200 pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	https://mm.digi	https://www.digi		1	1000	\$0.03	\$0.03	
C76	10nF/10000pF	Capacitor_SMD:C_0603_1608Metric	10000 pF ±10% 50V Ceramic Capacitor X7R 0603 (1608 Metric)	https://mm.digi	https://www.digi		1	1000	\$0.00	\$0.00	
C71,C85	22nF/0.22uF	Capacitor_SMD:C_0603_1608Metric	0.022 µF ±10% 25V Ceramic Capacitor X7R 0603 (1608 Metric)	https://www.we	https://www.digi		2	500	\$0.02	\$0.04	
C36,C37,C38,C39,C40,C51,C53,C55,C56,C57,C58,C59	100nF/0.1uF	Capacitor_SMD:C_0603_1608Metric	0.1 µF ±10% 25V Ceramic Capacitor X7R 0603 (1608 Metric)	https://mm.digi	https://www.digi		55	1000	\$0.00	\$0.19	
C45,C52,C54	1uF	Capacitor_SMD:C_0603_1608Metric	1 µF ±10% 25V Ceramic Capacitor X7R 0603 (1608 Metric)	https://mm.digi	https://www.digi		3	1000	\$0.01	\$0.03	
C29,C34,C35,C101,C41,C42,C65	10uF	Capacitor_SMD:C_0603_1608Metric	10 µF ±20% 10V Ceramic Capacitor X5R 0603 (1608 Metric)	https://weblib.si	https://www.digi		7	1000	\$0.02	\$0.12	
C100	22uF	Capacitor_SMD:C_0603_1608Metric	22 µF ±20% 10V Ceramic Capacitor X5R 0603 (1608 Metric)	https://mm.digi	https://www.digi		1	1000	\$0.02	\$0.02	
C5,C6,C7,C50	100uF	Capacitor_SMD:C_0603_1608Metric	100 µF ±20% 6.3V Ceramic Capacitor X5R 1206 (3216 Metric)	https://mm.digi	https://www.digi		4	1000	\$0.12	\$0.47	there is no 0603
C3,C4	150uF	Capacitor_SMD:C_0603_1608Metric	150 µF ±20% 6.3V Ceramic Capacitor X5R 1210 (3225 Metric)	https://weblib.si	https://www.digi		2	100	\$0.58	\$1.15	there is no 0603
R24	DNF	Resistor_SMD:R_0603_1608Metric					1			\$0.00	
R25,R26	27Ω	Resistor_SMD:R_0603_1608Metric	27 Ohms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resist	https://www.yag	https://www.digi		2	1000	\$0.01	\$0.01	
R30,R31,R33	51Ω	Resistor_SMD:R_0603_1608Metric	51 Ohms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resist	https://www.yag	https://www.digi		3	1000	\$0.01	\$0.02	
R27,R28	150Ω	Resistor_SMD:R_0603_1608Metric	150 Ohms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resist	https://www.yag	https://www.digi		2	1000	\$0.01	\$0.01	
R40	470R	Resistor_SMD:R_0603_1608Metric	470 Ohms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resist	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R23	1kΩ	Resistor_SMD:R_0603_1608Metric	1 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resist	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R29,R32	2.2kΩ	Resistor_SMD:R_0603_1608Metric	2.2 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thick Film	https://www.yag	https://www.digi		2	500	\$0.00	\$0.01	
R39	2.49K	Resistor_SMD:R_0603_1608Metric	2.49 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R20	4.7k	Resistor_SMD:R_0603_1608Metric	4.7 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive	https://www.yag	https://www.digi		1	1000	\$0.00	\$0.00	
R22,R35,R36,R37,R38	4.7K	Resistor_SMD:R_0402_1005Metric	4.7 kOhms ±5% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film	https://www.pas	https://www.digi		5	1000	\$0.00	\$0.01	
R18	9.53K	Resistor_SMD:R_0402_1005Metric	9.53 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Moisture F	https://www.yag	https://www.digi		1	1000	\$0.00	\$0.00	
R17,R42,R43	10K	Resistor_SMD:R_0402_1005Metric	10 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film	https://www.pas	https://www.digi		3	1000	\$0.00	\$0.01	
R45	11K	Resistor_SMD:R_0603_1608Metric	11 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thick Film	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R44	25.5K	Resistor_SMD:R_0402_1005Metric	25.5 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Moisture F	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R46	26.1K	Resistor_SMD:R_0603_1608Metric	26.1 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Res	https://www.yag	https://www.digi		1	100	\$0.01	\$0.01	
R16	90.9K	Resistor_SMD:R_0402_1005Metric	90.9 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Moisture F	https://www.yag	https://www.digi		1	1000	\$0.00	\$0.00	
R19	200K	Resistor_SMD:R_0603_1608Metric	200 kOhms ±5% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive A	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
R21	900K	Resistor_SMD:R_0603_1608Metric	910 kOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Res	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	There is no 900K
R34	1MΩ	Resistor_SMD:R_0603_1608Metric	1 MOhms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thick Film	https://www.yag	https://www.digi		1	1000	\$0.01	\$0.01	
D1,D2	SMBJ33CA	DIONM5436X261N	53.3V Clamp 11.3A Ipp Tvs Diode Surface Mount DO-214AA (SMBJ)	https://www.litt	https://www.digi		2	2		\$0.70	
D3,D4	LED	LED_SMD:LED_0603_1608Metric	Green 525nm LED Indication - Discrete 3.3V 0603 (1608 Metric)	https://mm.digi	https://www.digi		2	10		\$0.47	
FB1,FB2,FB5,FB6	220 @100MHz	Inductor_SMD:L_0805_2012Metric	220 Ohms @ 100 MHz 1 Power Line Ferrite Bead 0805 (2012 Metric) 3A 40m	https://www.pas	https://www.digi		4	10		\$0.21	
H1,H2,H3,H4	MountingHole	MountingHole:MountingHole_2.7mm_M2.5		~			4				
J2,J3	GSB4111312HR	GSB4111312HR:AMPHENOL_GSB4111312HR	USB-A (USB TYPE-A) USB 3.2 Gen 2 (USB 3.1 Gen 2, Superspeed + (USB 3.1))	https://cdn.amp	https://www.digi		3	3		\$3.24	
J5	ARJM11D7-502-ARJM11D7-502-AB-EW2-ABRACON	ARJM11D7-502-ARJM11D7-502-A	1 Port RJ45Through Hole 10/100/1000 Base-T, AutoMDIX	https://abracon	https://www.digi		1	0		\$0.00	น่าจะฟรีจากชิ้น 2
J6	DCJ200-10-A-XX	DCJ200-10-A-XX-K:REVA:GCT_DCJ200-10-A-XX-K:REI	Power Barrel Connector Jack 2.05mm ID (0.081"), 5.50mm OD (0.217") Throu	https://gct.co/fi	https://www.digi		1	1		\$0.72	
J7,J10	Conn_01x02	Connector_PinSocket_2.54mm:PinSocket_1x02_P2.54	Connector Header Through Hole 2 position 0.100" (2.54mm)	https://www.we	https://www.digi		2	10		\$1.02	
J9	Conn_01x03	Connector_PinSocket_2.54mm:PinSocket_1x03_P2.54	Connector Header Through Hole 3 position 0.100" (2.54mm)	https://www.we	https://www.digi		1	10		\$1.02	
L2	1uH	Inductor_SMD:L_1008_2520Metric	1 µH Shielded Drum Core, Wirewound Inductor 3.3 A 40mOhm Max 1008 (252	https://www.mu	https://www.digi		1	10	\$0.20	\$0.20	
MK2	SPH0645LM4H	Sensor_Audio:Knowles_SPH0645LM4H-6_3.5x2.65mm	20 Hz ~ 10 kHz Digital, I2S Microphone MEMS (Silicon) 1.62 V ~ 3.6 V Omnid	https://mm.digi	https://www.digi		1	1		\$2.73	
Q1,Q2	NTTFS5C673NL	NVTFSGH854NTAG	N-Channel 60 V 13A (Ta), 50A (Tc) 3.1W (Ta), 46W (Tc) Surface Mount 8-WDF	https://www.ons	https://th.mouser		2	2		\$0.76	
SW2	SW_Push	Button_Switch_THT:SW_PUSH_1P1T_6x3.5mm_H4.3_	Tactile Switch SPST-NO Top Actuated Through Hole	https://mm.digi	https://www.digi		1	1		\$0.37	
U1	RTL8153B-VB-C	RTL8153B-VB-CG:QFN40P500X500X90-41N	Integrated 10/100/1000M Ethernet Controller for USB 3.0 Applications USB Q	https://www.lcs	https://www.lcs		1	10		\$2.69	
U11	RP2040	Package_DFN_QFN:QFN-56-1EP_7x7mm_P0.4mm_EP	ARM® Cortex®-M0+ - Microcontroller IC 32-Bit Dual-Core 133MHz External P	https://datashee	https://www.digi		1	1		\$0.80	

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