

Component	Description	Designator	Footprint	Label	Quantity
Capacitor 22uF +/-10% 16V 0805	Chip Capacitor, 22uF +/-40%, 16V, 0805, Thickness: 1.6mm	C1	CAP0805(2012)14L_1	CMP-001-00081-2	1
Capacitor 0.1uF +/-1% 16V 0402	Chip Capacitor, 0.1uF +/-1%, 16V, 0402 (1305 Metric)	C2, C3	CAP0100504020A_1 0110	CMP-001-00031-4	2
Capacitor 1000uF +/-20% 10V 0402	Chip Capacitor, 1000uF +/-20%, 10V, 0402, Thickness: 0.6mm	C4, C7, C8, C10, C12, C18	CAP0402(1005)04_1	CMP-001-00061-2	4
Capacitor 4.7uF +/-20% 10V 0603	Chip Capacitor, 4.7uF +/-20%, 10V, 0603, Thickness: 1mm	C5, C6, C11, C15	CAP0603(1408)10R_1	CMP-001-00076-2	4
Capacitor 10uF +/-10% 5V 0402	Chip Capacitor, 10uF +/-10%, 5V, 0402, Thickness: 0.6mm	C9	CAP0402(1005)04_1	CMP-001-00074-2	1
Capacitor 47uF +/-20% 50V 0402	Chip Capacitor, 47uF +/-20%, 50V, 0402, Thickness: 0.6mm	C13	CAP0402(1005)04_1	CMP-001-00071-2	1
1491D107010A1	Tantalum Surface Mount Capacitor, Standard Tantalum, 10uF +/-10%, 10V, 65 to 125 degC, 2917 (7343 Metric), RoHS, Tape and Reel	C14	K10M_1491_D_M	CMP-001-00037-5	1
Capacitor 1uF +/-10% 20V 0603	Chip Capacitor, 1uF +/-10%, 20V, 0603, Thickness: 1mm	C16	CAP0603(1408)10R_1	CMP-001-00035-2	1
TP5D227010R0150	Tantalum Capacitor, 22uF +/-10%, 10V, 55 to 125 degC, 2917 (7343 Metric), RoHS, Tape and Reel	C17	CAPMP134431-1_V	CMP-001-00051-5	1
ES3050V001	Bi-direction ESD Protection Diode, 5V, 1uA, 3 Pin SOD-123, RoHS, Tape and Reel	D1, D2, D4, D7, D8, D9	JSC15005-123-2_V	CMP-004-00030-1	6
SS12	Schottky Rectifier, 20V, 1A, 45 to 125 degC, 2 Pin DO-214AC, RoHS, Tape and Reel	D3, D4, D5	FAIR-DO-214AC-2_V	CMP-004-00076-1	3
U12118AC, 111M28V131	Chip LED, Blue, 5V, 20mA, 45 to 85 degC, 2 Pin SMD (0402), RoHS, Tape and Reel	D01	EVBL-0402-2_V	CMP-007-00003-1	1
FUSE-3A/32V-3	Fast Acting Fuse, 3A, 32V, 55 to 160 degC, 2 Pin SMD, RoHS, Tape and Reel	F1	LFUS-407_V	CMP-005-00011-1	1
FUSE-1A/32V-3	Fast Acting Fuse, 1A, 32V, 55 to 160 degC, 2 Pin SMD, RoHS, Tape and Reel	F2	LFUS-407_V	CMP-005-00012-1	1
2012A70005	USB-C to USB Type-C, USB 3.1, USB 3.1 Gen 1, SuperSpeed+, Receptacle	J2	MOLEX_2012A70005	0012A70005	1
U11, U18, SM110	Ultra Small Surface Mount General Connector, 30 Ohm, 40 to 90 degC, 3 Pin SMD, RoHS, Tape and Reel	J3	HIS-U11, U18, SM1_V	CMP-002-00035-1	1
1050170001	Coax, Data, USB Recept, Micro B Type, Bottom Mount, 24MT, with Solder Tabs, Lead Free	J4	MOLEX_1050170001	1050170001	1
8010845021	2 Position Header Connector 0.250" (6.35mm) Through Hole Sn	J5	0010845021	0010845021	1
77311-462002F	Male Header, Pinless, 2.54mm, 1 x 5 Position, Height: 16.26mm, Tail Length: 3.18mm, 40 to 125 degC, RoHS, Tape and Reel	P1	FCI-77311-5_V	CMP-002-00021-1	1
538050-G	Regulator (BTL) Transistor NPN 25 V 1.5 A 100mW 200-milliWatt, 021, G2	Q1, Q2	TRANS_538050-G	538050-G	2
94B817906	PNP General Purpose Amplifier, 40V, 0.2A, 50 to 150 degC, 3 Pin SOT23, RoHS, Tape and Reel	Q3	FAIR-SOT23-2_V	CMP-013-00009-2	1
AC13407A	4 Channel 80V 4.5A (Tab 1.40V (Tab) 23.3	Q4	AC13407A	AC13407A	1
Resistor 10k +/-1% 0402 43 mW	Chip Resistor, 10k Ohm, +/-1%, 43 mW, 55 to 125 degC, 0402	R1, R2, R3, R8, R10, R11, R24	BESCO402(1005)_1	CMP-009-00149-2	7
Resistor 1k +/-5% 0402 43 mW	Chip Resistor, 1k Ohm, +/-5%, 43 mW, 55 to 135 degC, 0402	R4, R19	BESCO402(1005)_1	CMP-009-00157-2	2
Resistor 22k +/-1% 0402 43 mW	Chip Resistor, 22k Ohm, +/-1%, 43 mW, 55 to 155 degC, 0402	R5	BESCO402(1005)_1	CMP-009-00123-2	1
Resistor 47k +/-1% 0402 43 mW	Chip Resistor, 47k Ohm, +/-1%, 43 mW, 55 to 155 degC, 0402	R6	BESCO402(1005)_1	CMP-009-00137-2	1
Jumper 0402	Jumper 0402	R7, R9, R12, R23	BESCO402(1005)_1	CMP-009-00148-2	4
100R2F	10k 0.6W 5% 0402 (1305 Metric), 9405	R13, R17	BESCO402(1005)_1	CMP-009-00066-1	2
13R21	13R 0.625W 5% 0402 (1305 Metric), 9402, R21	R14, R15, R16, R18, R20, R27	BESCO402(1005)_1	CMP-009-00096-1	6
100R2F	10k 0.625W 5% 0402 (1305 Metric), 9405	R22	BESCO402(1005)_1	CMP-009-00067-1	1
130M402F	130k 0.625W 5% 0402 (1305 Metric), 9405	R25	BESCO402(1005)_1	CMP-009-00101-1	1
130M402F	130k 0.625W 5% 0402 (1305 Metric), 9405	R26	BESCO402(1005)_1	CMP-009-00108-1	1
130M402F	130k 0.625W 5% 0402 (1305 Metric), 9405	R28	BESCO402(1005)_1	CMP-009-00109-1	1
ESP32-WROOM-32D	Bluetooth, UART, 802.15.4, 180 to 1800 MHz, 2.4 to 2.48 GHz, Class 1, 2 and 3 Transceiver Module 2.4GHz - 2.5GHz Integrated, Trace Surface Mount	U1	MODULE_ESP32-WROOM-32D	ESP32-WROOM-32D	1
CP7102N-A02-CGF024R	USB Bridge, USB to UART, USB 2.0, UART Interface 24-GPIO, 1440	U2	CP7102N-A02-CGF024R	CP7102N-A02-CGF024R	1
W25N01GV25G1R	1-Kbit - NAND Memory IC 12b, 128MB to 512 MB, 104 Pins 0.1W500 (RoHS)	U3	W25N01GV25G1R_1	W25N01GV25G1R	1
MS561101BA03-50	Pressure Sensor 0.1mm - 11.4MPa (1MPa - 132MPa) Absolute 2.5 to 3.28mm	U4	MS561101BA03-50	MS561101BA03-50	1
LS13310L4TR	Accelerometer X, Y, Z Axis A to Zg, 4g, 8g, 250g, 500g to 1.6g, 250g, 1.5	U5	LS13310L4TR	LS13310L4TR	1
NEO-M8M-0	Series 8F Receiver, Red/Green, 62.7MHz, 0405, GPS, 1.1752GHz, 30.788mm	U6	NEO-M8M-0	NEO-M8M-0	1
AP7361-33R-13	Linear Voltage Regulator (+Positive) Fixed 1 Output 1A, 0.01-202.3	U7	AP7361-33R-13	AP7361-33R-13	1