

Bill of Materials Example

Part Name/Description	Unit Quantity	Unit Prototype Cost	Total Prototype Cost	Unit Production Cost	Total Production Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	# Ordered	Order Date	Order Received	Surplus	Schematic Reference	Designators
F3169CT-ND - Cut Tape (CT)-Fuse	1	\$1.17	\$1.17	\$1.17	\$1.17	Littelfuse Inc. ✖ Sullins Connector Solutions	FUSE BRD MNT 1A 125VAC/VDC AXIAL	Fuse	Fuse Data	Digikey	F3169CT-ND - Cut Tape (CT)	1	10/31/2025		1	0	F1
S9339-ND- Jumper	5	\$0.10	\$0.50	\$0.10	\$0.50	TE Connectivity AMP Connectors ✖ Microchip Technology	SPN02SXCN-RC	Jumper	Jumper Data	Digikey	S9339-ND	5	10/31/2025		5	0	JP1, JP2, JP3, JP4, JP5
17-215570-8CT-ND- Ribbon Connector	1	\$0.81	\$0.81	\$0.81	\$0.81	Microchip Technology	215570-8	Connector	Connector Data	Digikey	17-215570-8CT-ND - Cut Tape (CT)	1	10/31/2025		1	0	J1
LM2575-5.0WT Voltage Converter	1	\$1.72	\$1.72	\$1.72	\$1.72	Microchip Technology	LM2575-5.0WT	Voltage Converter	Voltage Converter Data	Digikey	576-1516-5-ND	1	10/31/2025		1	0	U3
MCP6022-I/P-ND- Op-Amp	1	\$1.86	\$1.86	\$1.86	\$1.86	Same Sky (Formerly CUI Devices) ✖ Würth Elektronik	MCP6022-I/P	Op-Amp	Op-Amp Data	Digikey	MCP6022-I/P-ND	1	10/31/2025		1	0	U2A, U2B, U2C
Barrel Jack	1	\$0.76	\$0.76	\$0.76	\$0.76	Same Sky (Formerly CUI Devices) ✖ Würth Elektronik	PJ-102AH	Barrel Jack	Barrel Jack Data	Digikey	PJ-102AH	1	10/31/2025		1	0	J2
LED Diode	1	\$0.15	\$0.15	\$0.15	\$0.15	Würth Elektronik ✖ Panasonic Electronic Components	151051RS11000	LED	LED Data	Digikey	151051RS11000	1	10/31/2025		1	0	D1
10uF Capacitor	2	\$0.26	\$0.52	\$0.26	\$0.52	Panasonic Electronic Components ✖ KEMET	ECA-1HHG100B	10uF Cap	10uF Cap Data	Digikey	ECA-1HHG100B	2	10/31/2025		2	0	C1, C3
0.1 uF Capacitor	3	\$0.87	\$2.61	\$0.87	\$2.61	KEMET ✖ Panasonic Electronic Components	C322C104K5R5TA	0.1uF Cap	0.1uF Cap Data	Digikey	399-4329-ND	3	10/31/2025		3	0	C4, C5
100 uF Capacitor	2	\$0.26	\$0.52	\$0.26	\$0.52	Panasonic Electronic Components ✖ YAGEO	ECA-1CHG101I	100uF Cap	100uF Cap Data	Digikey	ECA-1CHG101I	1	10/31/2025		1	0	C6
100 kOhm Resistor	1	\$0.10	\$0.10	\$0.10	\$0.10	YAGEO ✖ YAGEO	MFR25SFBE52-100K	100 kOhm Resistor	100 kOhm Resistor Data	Digikey	13-MFR25SFBE52-100K-ND	1	10/31/2025		1	0	R1
1 kOhm Resistor	3	\$0.10	\$0.30	\$0.10	\$0.30	YAGEO ✖ Microchip Technology	MFR-25FTF52-1K	1 kOhm Resistor	1 kOhm Resistor Data	Digikey	MFR-25FTF52-1K	3	10/31/2025		3	0	R2, R3, R4
PIC18F57Q10 Curiosity Nano Board	1	\$10.19	\$10.19	\$10.19	\$10.19	Microchip Technology ✖ Peralta Hall	DM164150	Microcontroller	Microcontroller Data	Digikey	150-DM164150-ND	1	10/31/2025		1	0	PICU1
Probe Node Printed on PCB	1	\$0.00	\$0.00	\$0.00	\$0.00	Peralta Hall	N/A	N/A	N/A	Peralta Hall	N/A	1	10/31/2025		1	0	ProbeNodeU1
200 Ohm Resistor	1	\$0.10	\$0.10	\$0.10	\$0.10	YAGEO	MFR-25FRF52-200R	200 Ohm Resistor	200 Ohm Data	Digikey	200RCT-ND	0	N/A		0	0	R5
AIUR-06-331K Inductor	1	\$0.87	\$0.87	\$0.87	\$0.87	Abracon LLC	AIUR-06-331K	Inductor	Inductor Data	Digikey	AIUR-06-331K-ND	1	10/31/2025		1	0	L1
330uF Capacitor	1	\$0.54	\$0.54	\$0.54	\$0.54	Rubycon	25ZLS330MEFC8X11.5	330uF Cap	330uF Cap Data	Digikey	1189-2582-ND	1	10/31/2025		1	0	C2
1N5819-E3/54 Schottky Diode	1	\$0.29	\$0.29	\$0.29	\$0.29	Vishay General Semiconductor - Diodes Division	1N5819-E3/54	Schottky Diode	Schottky Diode Data	Digikey	1N5819-E3/54GICT-ND	1	10/31/2025		1	0	D2