

Bill of Materials Example

Part Name/Description	Unit	Quantity	Unit Price	Prototype Cost	Total Prototype Cost	Unit Price	Production Cost	Total Production Cost	Manufacturer	Manufacturer Part #	Vendor Link	Datasheet Link	Supplier	Supplier Part #	# Orders	Order Date	Order #	Receiver	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	215570-8	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			Traco Power	215570-8	Connector	Connector Data	Digikey	17-215570-8CT-ND - Cut Tape (CT)	1	10/31/2025		1	0	J1	
1951-TSR1-2450E-ND- Voltage Converter	1		\$3.40	\$3.40	\$3.40	\$3.40			Microchip Technology	TSR 1-2450E	Voltage Converter	Voltage Converter Data	Digikey	1951-TSR1-2450E-ND	1	10/31/2025		1	0	U1	
MCP6022-I/P-ND- Op-Amp	1		\$1.86	\$1.86	\$1.86	\$1.86			Same Sky (Formerly CUI Devices)	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			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			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			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			Panasonic Electronic Components	C322C104K5R5TA	0.1uF Cap	0.1uF Cap Data	Digikey	399-4329-ND	3	10/31/2025		3	0	C2, C4, C5	
100 uF Capacitor	1		\$0.26	\$0.26	\$0.26	\$0.26			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	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			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			DM164150	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	