

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 #	Order #	Date Ordered	# Received	Surplus	Schematic Reference	Designators
Capacitor 10uF	10	\$0.13	\$1.30	\$0.13	\$1.30	Murata Electronics	GRM21BR61C106KE15K	GRM21BR61C106 GRM21BR61C106	Digikey	490-6473-1-NI	10	2/28/2025	-10				
Capacitor 4.7uF	10	\$0.28	\$2.80	\$0.28	\$2.80	Cal-Chip Electronics, Inc.	GMC10X7R475K10NT	https://www.digikey.com/gmc-series	Digikey	4713-GMC10X	10	2/28/2025	-10				
Capacitor 0.1uF	20	\$0.08	\$1.60	\$0.08	\$1.60	Murata Electronics	GRM033R61A104KE15D	GRM033R61A104 GRM033R61A104	Digikey	490-5881-1-NI	20	2/28/2025	-20				
LED	12	\$0.32	\$3.84	\$0.32	\$3.84	ams-OSRAM USA INC.	LB T64G-AACB-59-Z484-20-R33-Z	IN-P32ATB Inolux IN-P32AT Series v	Digikey	1830-1108-1-N	12	2/28/2025	-12				
ESP32-S3-WROOM1	3	\$5.06	\$15.18	\$5.06	\$15.18	Espressif Systems	ESP32-S3-WROOM-1-N4	ESP32-S3-WROOM esp32-s3-wroom-1	Digikey	1965-ESP32-S	3	2/28/2025	-3				
Fuse	5	\$0.98	\$4.90	\$0.98	\$4.90	Bourns Inc.	SF-0603FP500F-2	SF-0603FP500F-2 SF-0603FP-F Series	Digikey	SF-0603FP500	5	2/28/2025	-5				
Female Header 1x20	10	\$0.83	\$8.30	\$0.83	\$8.30	Würth Elektronik	61302011821	61302011821 Würth 61302011821 Data	Digikey	732-61302011	10	2/28/2025	-10				
Voltage Regulator	5	\$1.56	\$7.80	\$1.56	\$7.80	Texas Instruments	LM3671MF-3.3/NOPB	LM3671MF-3.3/NO LM3671/-Q1 2-MHz	Digikey	LM3671MF-3.3	5	2/28/2025	-5				
Push Button	6	\$0.18	\$1.08	\$0.18	\$1.08	C&K	PTS636SM43SMTR LFS	PTS636SM43SMTR LFS C&K Switch	Digikey	CKN12310-1-N	6	2/28/2025	-6				
Resistor 10k	10	\$0.10	\$1.00	\$0.10	\$1.00	YAGEO	RC0201FR-0710KL	RC0201FR-0710KL PYu-RC_Group_51	Digikey	311-10.0KMC	10	2/28/2025	-10				
UART Header	5	\$0.95	\$4.75	\$0.95	\$4.75	Molex	702460801	0702460801 Molex 702460801	Digikey	900-07024608	5	2/28/2025	-5				
Inductor	10	\$0.20	\$2.00	\$0.20	\$2.00	490-14478-1-ND	LQM18PN2R2MGHD	LQM18PN2R2MGH JELF243B-0047.pdf	Digikey	490-14478-1-N	10	2/28/2025	-10				