

Bill of Materials AMG

Part Name/Description	Unit Quantity	Unit Prototype Cos	Total Prototype Cos	Unit Production Cos	Total Production Cos	Manufacturer	Manufacturer Part	Vendor Link	Datasheet Link	Supplier	Supplier Part #	Orderec Date	Orderec #	Received	Surplus	Schematic Reference	Designators
MICRO-WATER-PUMP	1	\$3.52	\$3.52			\$0.00 Olimex LTD	MICRO-WATER-PUMP			Digikey	1188-MICRO-V	2	10/31/2025			-1	M1
Adafruit Industries LLC 2941	2	\$3.50	\$7.00			\$0.00 Adafruit Indus	2941			Digikey	1528-1561-ND	3	10/31/2025			-2	M2, M3
LM7805CT/NOPB	1	\$1.80	\$1.80			\$0.00 Texas Instrun	LM7805CT/NOPB			Digikey	296-47192-ND	2	10/31/2025			-1	U1
CONN HDR 28POS 0.1 TIN PCB	2	\$1.50	\$3.00			\$0.00 Sullins Conne	PPTC281LFBN-RC			Digikey	S7026-ND	4	10/31/2025			-2	U2
CONN PWR JACK 2X5.5MM SOLDER	1	\$0.76	\$0.76			\$0.00 Same Sky (Fr	PJ-102AH			Digikey	CP-102AH-ND	2	10/31/2025			-1	J1
N-CHANNEL MOSFET 60V 16A TO220F (AOTF2618L)	1	\$0.68	\$0.68			\$0.00 Alpha & Ome	AOTF2618L			Digikey	785-1442-5-ND	2	10/31/2025			-1	U3
FUSE GLASS 3A 250VAC 5X20MM	1	\$0.59	\$0.59			\$0.00 Littelfuse Inc.	0235003.HXP			Digikey	F2682-ND	10	10/31/2025			-1	F1
CONN HEADER VERT 8POS 2.54MM	2	\$0.43	\$0.86			\$0.00 Samtec Inc.	TSW-104-07-F-D			Digikey	SAM8996-ND	4	10/31/2025			-2	U4, U5
TERM BLK 2POS SIDE ENTRY 5MM PCB	3	\$0.36	\$1.08			\$0.00 Würth Elektro	691137710002			Digikey	732-10955-ND	4	10/31/2025			-3	M1,M2,M3
Test Points	19	\$0.33	\$6.27			\$0.00 Keystone Elei	5117			Digikey	36-5117-ND	25	10/31/2025			-19	T1-T19
CONN JUMPER SHORTING TIN	8	\$0.10	\$0.80			\$0.00 Sullins Conne	STC02SYAN			Digikey	S9000-ND	10	10/31/2025			-8	J1-J8
DIODE STANDARD 1000V 1A DO204AC	1	\$0.10	\$0.10			\$0.00 Diotec Semic	1N4007			Digikey	4878-1N4007C	3	10/31/2025			-1	D1
Microchip PIC18F57Q43 Curiosity Nano Dev Kit	1	\$0.00	\$0.00			\$0.00 Microchip	DM164150			Microchip	DM164150	0	10/31/2025			-1	U2
FAN8100N BRUSH DC MOTOR CONTROLLER	1	\$0.00	\$0.00			\$0.00 Fairchild Sem	FAN8100N			PRLTA 106	N/A	0	10/31/2025			-1	U6
6x6x5mm Tactile Tact Push Button Switch	1	\$0.00	\$0.00			\$0.00				PRLTA 106	N/A	0	10/31/2025			-1	R2,R3
RESISTOR KIT - 1/4W (10K AND 330)	1	\$0.00	\$0.00			\$0.00				PRLTA 106	N/A	0	10/31/2025			-1	SW1
GREEN LED	1	\$0.00	\$0.00			\$0.00				PRLTA 106	N/A	0	10/31/2025			-1	D2
Cartridge Fuse Holder, 5x20mm	1	\$0.00	\$0.00			\$0.00 Keystone Elei	4628			Digikey	36-4628-ND	0	10/31/2025			-1	F1
10uF ceramic capacitor	3	\$0.00	\$0.00			\$0.00 Lumimax Opt	MC2-1206Y106M500BF3			Digikey	4491-MC2-120	0	10/31/2025			-3	C1
CAP CER 0.1UF 50V X7R RADIAL	4	\$0.00	\$0.00			\$0.00 Vishay Beyesc	K104K10X7RF5UH5			Digikey	BC2665CT-ND	0	10/31/2025			-4	C2,C3,C4