





Designator	Comment	Footprint	Quantity
BAT1	Battery_1S	WAGO 2059-302	1
C1, C2, C3, C4, C5, C6, C21, C22, C23, C24	0.1uF	1608[0603]_M	10
C7, C8, C9	47uF	2012[0805]_M	3
C10, C11, C13, C16, C17	4.7uF, 10V	1608[0603]_M	5
C12, C15	10uF, 10V	1608[0603]_M	2
C14	0.1uF, 10V	1608[0603]_M	1
C18, C19, C20	Unpopulated	2012[0805]_M	3
IC1	RN42-I/RM	RN42	1
IC2	PIC32MZ1024ECG06 4-I/PT	TQFP-64_M	1
IC3, IC4, IC5	BD6210HFP	HRP7_N	3
IC6	MT9V034C12STM	CLCC-48_m	1
IC7	MCP73871-2CCI/ML	QFN-20_M	1
IC8	LM3671MF-3.3	SOT23-5_N	1
IC9	BQ29700DSET	WSON-6_M	1
IC10	LP2980-AIM5-3.3	SOT23-5_N	1
L1	SRN2512-2R2M	2520[1008]_N	1
LED1, LED2, LED3	Unpopulated	PLCC2_WITH_HEATSINK	3
LensHolder1	Unpopulated	BoardLensMount_M12_22mm	1
M1, M2, M3	Unpopulated	CABLE-TERMINAL1x2	3
P1	Connector 5	BM05B-SRSS_N	1
P2	Connector 12	FH33-12S-0.5SH_N	1
P3	MicroUSB2.0	USB3076_M	1
Q1	BSS138BK	SOT23-3_N	1
Q2, Q3	Unpopulated	SOT23-3_N	2
Q4, Q5	CSD17527Q5A	PG-TDSON-8_MOSFET_M	2
R1, R2, R3, R4, R5, R8, R10, R11, R12, R13, R14, R15, R16, R19, R24, R28, R29, R30, R34, R43	10K	1608[0603]_M	20
R6, R7	1K5	1608[0603]_M	2
R9, R36, R37, R39, R40, R44	Unpopulated	1608[0603]_M	6
R17, R18	1K	1608[0603]_M	2
R20, R21, R22	26R1, 0.1%, 1/8W	2012[0805]_M	3
R23, R35	330	1608[0603]_M	2
R25, R27, R31	100K	1608[0603]_M	3
R26	270K	1608[0603]_M	1
R32	1K69	1608[0603]_M	1
R33	16K9	1608[0603]_M	1
R38	2K2	1608[0603]_M	1
R41, R42	5M1	1608[0603]_M	2

Designator	Post-assembly job	Quantity
BAT1		1
C1, C2, C3, C4, C5, C6, C21, C22, C23, C24		10
C7, C8, C9	Solder one more 47uF in parallel to make it 94uF	3
C10, C11, C13, C16, C17		5
C12, C15		2
C14		1
C18, C19, C20		3
IC1		1
IC2		1
IC3, IC4, IC5		3
IC6		1
IC7		1
IC8		1
IC9		1
IC10		1
L1		1
LED1, LED2, LED3	Extend to a VSMY3850-GS08 with cables	3
M1, M2, M3	Extend to motor with cables	3
P1		1
P2		1
P3		1
Q1		1
Q2, Q3		2
Q4, Q5		2
R1, R2, R3, R4, R5, R8, R10, R11, R12, R13, R14, R15, R16, R19, R24, R28, R29, R30, R34, R43		20
R6, R7		2
R9, R36, R37, R39, R40, R44		6
R17, R18		2
R20, R21, R22		3
R23, R35		2
R25, R27, R31		3
R26		1
R32		1
R33		1
R38		1
R41, R42		2