

5.3 Bill of Materials

-001	-002	RefDes	Value	Description	SIZE	Part Number	MFR
1	1	C1	1 μ F	Capacitor, Ceramic, 25V, X5R, 10%	0603	ECJ-1VB1E105K	Panasonic
0	0	C2		Capacitor, Ceramic, 25V, X5R, 10%	0805	–	–
1	1	C3	2.2 μ F	Capacitor, Ceramic, 10V, X5R, 10%	0603	ECJ-1VB1A225K	Panasonic
0	0	C4		Capacitor, Ceramic, 10V, X5R, 10%	0805	–	–
0	0	C5		Capacitor, Ceramic, 25V, X5R, 10%	0603	–	–
2	2	D1, D2	LTST-C190GKT	Diode, LED, Green, 2.1-V, 20-mA, 6-mcd	0603	LTST-C190GKT	Lite On
0	1	D3	BZX84C5v6-7-F	Diode, Zener, 5.6-V, 350-mW	SOT-23	BZX84C5v6-7-F	Diodes
1	1	J1**	ED555/2DS	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25 inch	ED555/2DS	OST
1	1	J2**	ED555/4DS	Terminal Block, 4-pin, 6-A, 3.5mm	0.55 x 0.25 inch	ED555/4DS	OST
0	2	J3, J4	PEC02SAAN	Header, Male 2-pin, 100mil spacing, (2-pin strip)	0.100 inch x 2	PEC02SAAN	Sullins
3	3	JMP2, JMP4, JMP5	PEC02SAAN	Header, Male 2-pin, 100mil spacing, (2-pin strip)	0.100 inch x 2	PEC02SAAN	Sullins
0	0	JMP6	PEC02SAAN	Header, Male 2-pin, 100mil spacing, (2-pin strip)	0.100 inch x 2	PEC02SAAN	Sullins
1	0	JMP1	PEC02SAAN	Header, Male 2-pin, 100mil spacing, (2-pin strip)	0.100 inch x 2	PEC02SAAN	Sullins
1	1	JMP3	PEC03SAAN	Header, Male 3-pin, 100mil spacing, (3-pin strip)	0.100 inch x 3	PEC03SAAN	Sullins
1	1	R1	675	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	1	R11	50k	Potentiometer, 1/4 in. Cermet, 12-Turn, Top-Adjust	0.25x0.17	3266W-1-503LF	Bourns
0	0	R13, R14		Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	1	R2	10k	Potentiometer, 1/4 in. Cermet, 12-Turn, Top-Adjust	0.25x0.17	3266W-1-103LF	Bourns
1	0	R4	10k	Potentiometer, 1/4 in. Cermet, 12-Turn, Top-Adjust	0.25x0.17	3266W-1-103LF	Bourns
2	2	R3, R12	1.0k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
2	2	R5, R9	1.5k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
0	2	R6, R10	100k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	1	R7	10k	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	1	R8	0	Resistor, Chip, 1/16W, 1%	0603	Std	Std
1	0	U1	BQ24040DSQ	IC, 800mA, Single-Input, Single Cell Li-Ion BATTERY CHARGER w/wo Auto Start (ASI/ASO)	SON-10	BQ24040DSQ	TI
0	1	U1	BQ24041DSQ	IC, 800mA, Single-Input, Single Cell Li-Ion BATTERY CHARGER w/wo Auto Start (ASI/ASO)	SON-10	BQ24041DSQ	TI
5	5	Shunt (Note 5)		Shunt, 100-mil, Black	0.1	929950-00	3M
1	1	--		PCB, 2.9 In x 1.8 In x 0.031 In		HPA387	Any

- Notes:
- These assemblies are ESD sensitive, ESD precautions shall be observed.
 - These assemblies must be clean and free from flux and all contaminants. Use of no-clean flux is not acceptable.
 - These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 - Ref designators marked with an asterisk (***) cannot be substituted. All other components can be substituted with equivalent MFR's components.
 - Apply shunt to JMP1/2/4/5 and JMP3:2/3. Note J3 and J4 are test pins and do not have shunts (jumpers).

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