

Battery Boost Bill Of Materials

PCBA Revision A02



Item	Qty	Designator	Value	Part 1 MF	Part 1 MPN	
1	1	C3	1.5nF $\pm 10\%$ 50V X7R 1206	YAGEO	CC1206KRX7R9BB152	<input type="checkbox"/>
2	1	C9	100nF $\pm 10\%$ 50V X7R	YAGEO	CC1206KRX7R9BB104	<input type="checkbox"/>
3	5	C1 C4 C6 C7 C8	100uF $\pm 20\%$ 50V	Honor Elec	RVT1H101M0810	<input type="checkbox"/>
4	2	C2 C5	10uF $\pm 10\%$ 25V X5R	Samsung Electro-Mechanics	CL31A106KAHNNNE	<input type="checkbox"/>
5	1	D2	40V 3A 500mV@3A	Diodes Incorporated	B340B-13-F	<input type="checkbox"/>
6	2	D1 D4	Green LED	EKINGLUX	E6C1206VGAC1UDA	<input type="checkbox"/>
7	1	D3	Orange LED	EKINGLUX	E6Q1206SEAC1UDA	<input type="checkbox"/>
8	2	J6 J7	Screw Terminal	Ningbo Kangnex Elec	WJ124-3.81-2P	<input type="checkbox"/>
9	1	J5	Micro USB Connector	Korean Hroparts Elec	U-F-M5DD-Y-L	<input type="checkbox"/>
10	1	L1	150uH $\pm 20\%$ 2.15A 280mΩ	Sumida	CDRH127/LDNP-151MC	<input type="checkbox"/>
11	1	L2	1uH $\pm 20\%$ 3.29A 59mΩ	Sunltech Tech	SL0252012F1R0MTT	<input type="checkbox"/>
12	2	Q1 Q2	-30V 12A 14mΩ @ 8A	Diodes Incorporated	DMP3020LSS-13	<input type="checkbox"/>
13	1	Q4	20V 7.5A 24mΩ @ 2.5Vgs	ON Semiconductor	FDS6892A	<input type="checkbox"/>
14	1	R7	0R	YAGEO	RC1206FR-070RL	<input type="checkbox"/>
15	1	R1	0.3R	UNI-ROYAL	1206W4F300LT5E	<input type="checkbox"/>
16	1	R2	180R	YAGEO	RC1206FR-07180RL	<input type="checkbox"/>
17	4	R5 R8 R10 R12	10k	YAGEO	RC1206JR-0710KL	<input type="checkbox"/>
18	1	R4	16k	YAGEO	RC1206FR-0716KL	<input type="checkbox"/>
19	2	R11 R16	1.2kΩ $\pm 1\%$ 0.25W	YAGEO	RC1206FR-071K2L	<input type="checkbox"/>
20	1	R15	330R $\pm 1\%$ 0.25W	YAGEO	RC1206FR-07330RL	<input type="checkbox"/>
21	1	R9	47.5kΩ $\pm 1\%$ 0.25W	YAGEO	AC1206FR-0747K5L	<input type="checkbox"/>
22	1	R3	499k 1% 0.25W	UNI-ROYAL	1206W4F4993T5E	<input type="checkbox"/>
23	1	R6	9.1k 1% 0.25W	RALEC	RTT069101FTP	<input type="checkbox"/>
24	1	RV1	Variable Resistor 500kΩ $\pm 10\%$	BOCHEN	3296W-1-504	<input type="checkbox"/>
25	1	SW1	##V ##A SPST Switch	XKB Connectivity	SS-12D06L5	<input type="checkbox"/>
26	1	U1	Boost Converter IC	Diodes Incorporated	AP34063S8G-13	<input type="checkbox"/>
27	1	U3	Battery Protection IC	Diodes Incorporated	AP9101CK6-AYTRG1	<input type="checkbox"/>
28	1	U2	Battery Charger IC	TOPPOWER	TP4056-42-ES0P8	<input type="checkbox"/>