

part	id	desc	part number
<b>Power Module</b>			
Board Header	X1	Male 1x2 Straight	M20-9770246
JTAG Header	X2	Male 2x3	M20-9760346
<b>Controller</b>			
PW Controller	U1	ATTiny45V	ATTINY45V-10SU
PW SW1	SW1	Power Switch	JS202011JCQN
PW SW2	SW2	LED Enable Switch	JS202011JCQN
PW LED1	LED1	Red 2mA	LS L29K-G1H2-1-Z
PW LED2	LED2	Green 2mA	LG L29K-F2J1-24-Z
PW R1	R1	2k 0603 1% - LED1	RC0603FR-072KL
PW R2	R2	2k 0603 1% - LED2	RC0603FR-072KL
PW R3	R3	20k 0603 - Switch Pull Up	RC0603FR-0720KL
PW R4	R4	20k 0603 - RST Pull Up	RC0603FR-0720KL
PW C1	C1	100nF X7R 10% 0603	CL10B104KO8NNNC
<b>Battery</b>			
PW Li-Ion IC	U2	Li-Ion Controller IC (current order is -2AT)	MCP73831T-2ACI/OTCT-ND
USB Jack	X3	Micro USB SMD	10118194-0001LF
500mA Fuse	F1	500mA 15V Fuse	MF-MSMF050-2
Battery Connector	X4	JST XH 3A Male	S2B-XH-A(LF)(SN)
PW R1	R5	2k 0603 1% - LED2	RC0603FR-072KL
PW R3	R6	20k 0603 - USB Pull Down	RC0603FR-0720KL
PW Cin	C2	10uF X5R 10% 0603	GRM188R61A106KE69D
<b>3.3V DC-DC Converter</b>			
3.3V Switcher	U3	Adj Buck Boost	TPS63020DSJR
Voltage Divider 1	age Divic	Voltage Divider 1	Voltage Divider 1
Voltage Divider 2	R8	137k 0603 1% - Lower	RC0603FR-07137KL
Transient R1	R9	68k 0603 1%	RC0603FR-0768KL
Transient C1	C9	4.7pF NP0 5% 0603	CL10C4R7CB8NNNC
Vina C1	C3	100nF 0.03 ohm	CL10B104KO8NNNC
Vin C1	C4	10uF X5R 10% 0603	GRM188R61A106KE69D

Vin C2	C5	10uF X5R 10% 0603	GRM188R61A106KE69D
Cout C1	C6	47uF X6S 10% 1206	CL31X476KQHNNNE
Cout C2	C7	47uF X6S 10% 1206	CL31X476KQHNNNE
Cout C3	C8	47uF X6S 10% 1206	CL31X476KQHNNNE
L1	L1	1uH 0.01 ohm (or 0.048 ohm) 4A min sat	TYS60281R0N-10