

Table 1

Collated Components:											
Item	Qty	Reference(s)	Value	Datasheet	Description	DigiKey P/N	Manufacturer	Manufacturer P/N	Type	Need	Have
1	1	BAT1	Molex PicoBlade 53047-0210		CONN HEADER VERT 2POS 1.25MM	WM1731-ND	Molex	530470210	ThroughHole	10	
2	6	C1, C2, C3, C4, C5, C16	10uF	~	CAP CER 10UF 10V X5R 0805	1276-1144-1-ND	Samsung Electro-Mechanics	CL21A106MPFNNE	SMD	60	
3	3	C6, C9, C10	1uF	~	CAP CER 1UF 10V X5R 0805	399-8006-1-ND	KEMET	C0805C105K8PAC TU	SMD	30	
4	6	C7, C8, C14, C15, C17, C18	22uF	~	CAP CER 22UF 10V X5R 0805	399-12069-1-ND	KEMET	C0805C226M8PAC 7800	SMD	60	
5	3	C11, C12, C13	4.7uF	~	CAP CER 4.7UF 10V X7R 0805	1276-2972-1-ND	Samsung Electro-Mechanics	CL21B475KPFNNE	SMD	30	
6	1	D1	NRVTS260ESFT1G	~	DIODE SCHOTTKY 60V 2A SOD123FL	NRVTS260ESFT1G OSCT-ND	ON Semiconductor	NRVTS260ESFT1G	SMD	10	
7	2	D2, D3	MMBD914	http://www.vishay.com/docs/85622/1n914.pdf	DIODE GEN PURP 100V 200MA SOT23	MMBD914LT1GOS CT-ND	ON Semiconductor	MMBD914LT1G	SMD	20	
8	1	JP1	Jumper_NC_Small	~						10	
9	2	L1, L2	4.7 uH	~	FIXED IND 4.7UH 3A 40.3 MOHM SMD	587-2100-1-ND	Taiyo Yuden	NR6028T4R7M	SMD	20	
10	1	LED1	Red	~	LED RED CLEAR 0603 SMD	160-1447-1-ND	Lite-On Inc.	LTST-C191KPKT	SMD	10	
11	1	LED2	Amber	~	LED AMBER CLEAR 0603 SMD	160-1445-1-ND	Lite-On Inc.	LTST-C191KPKT	SMD	10	
12	1	LED3	Green	~	LED GREEN CLEAR 0603 SMD	160-1446-1-ND	Lite-On Inc.	LTST-C191KPKT	SMD	10	
13	1	P1	Conn_01x08	~	CONN HDR 8POS 0.1 GOLD PCB	S7041-ND	Sullins Connector Solutions	PPPC081LFBN-RC	ThroughHole	10	
14	1	P2	Conn_01x05	~	CONN HDR 5POS 0.1 GOLD PCB	S7038-ND	Sullins Connector Solutions	PPPC051LFBN-RC	ThroughHole	10	
15	1	P3	USB_A_1		CONN RCPT TYPEA 4POS R/A - WHITE	ED2989-ND	On Shore Technology Inc.	USB-A1HSW6	ThroughHole	10	
16	1	P4	USB-C	https://gct.co/files/drawings/usb4105.pdf	CONN RCP USB2.0 TYP C 24P SMD RA	2073-USB4105-GF-ACT-ND	GCT	USB4105-GF-A		10	
17	1	P5	Conn_01x05	~	CONN FFC FPC VERT 5POS 1MM SMD	609-1134-1-ND	Amphenol	SFW5S-2STE1LF	SMD	10	
18	1	P6	Conn_01x12	~	CONN HDR 12POS 0.1 GOLD PCB	S7045-ND	Sullins Connector Solutions	PPPC121LFBN-RC		10	
19	1	P7	Conn_01x04	~	CONN HDR 4POS 0.1 GOLD PCB	S7037-ND	Sullins Connector Solutions	PPPC041LFBN-RC	ThroughHole	10	
20	1	P8	Conn_01x06	~	CONN FFC BOTTOM 6POS 1.00MM R/A	609-1889-1-ND	Amphenol	SFW6R-1STE1LF		10	
21	2	PB1, PB2	SPST-PUSH		SWITCH TACTILE SPST-NO 50MA 12V	EG5353CT-ND	E-Switch	TL3305AF260QG	SMD	20	
22	1	Q1	2N7002	~	N-Channel 400mA (Ta) 320mW (Ta) Surface Mount SOT-23-3	T2N7002BKL MCT-ND	Toshiba	T2N7002BK.LM		10	
23	1	R1	162	~	RES SMD 162 OHM 1% 1/8W 0805	311-162CRCT-ND	Yageo	RC0805FR-07162R	SMD	10	
24	1	R2	0.03 ohm	~	RES 0.03 OHM 1% 1/2W 0805	P19207CT-ND	Panasonic Electronic Components	ERJ-6CWF030V	SMD	10	
25	4	R3, R8, R16, R17	10K	~	RES SMD 10K OHM 1% 1/8W 0805	311-10.0KCRCT-ND	Yageo	RC0805FR-0710KL	SMD	40	
26	1	R4	1.8K	~	RES SMD 1.8K OHM 1% 1/8W 0805	311-1.80KCRCT-ND	Yageo	RC0805FR-071K8L	SMD	10	
27	1	R5	51K	~	RES SMD 51K OHM 1% 1/8W 0805	311-51.0KCRCT-ND	Yageo	RC0805FR-071KL	SMD	10	
28	1	R6	220K	~	RES SMD 220K OHM 1% 1/8W 0805	311-220KCRCT-ND	Yageo	RC0805FR-07220KL	SMD	10	
29	1	R7	100	~	RES SMD 100 OHM 1% 1/8W 0805	311-100CRCT-ND	Yageo	RC0805FR-07100R L	SMD	10	
30	5	R9, R10, R11, R13, R22	1K	~	RES SMD 1K OHM 1% 1/8W 0805	311-1.00KCRCT-ND	Yageo	RC0805FR-071KL	SMD	50	
31	4	R12, R14, R18, R19	2.2K	~	RES SMD 2.2K OHM 1% 1/8W 0805	311-2.20KCRCT-ND	Yageo	RC0805FR-072K2L	SMD	40	
32	2	R20, R26	200K	~	RES SMD 200K OHM 1% 1/8W 0805	311-200KCRCT-ND	Yageo	RC0805FR-07200KL	SMD	20	
33	1	R27	27.0K	~	RES SMD 27.0K OHM 1% 1/8W 0805	311-27.0KCRCT-ND	Yageo	RC0805FR-0727KL	SMD	10	
34	1	U1	AXP209	http://www.kynix.com/Detail/120792/AXP209.html	Enhanced single Cell Li-Battery and Power System Management IC		X-Powers	AXP209	SMD	10	
35	1	U2	MT3608	http://www.kynix.com/Detail/584537/MT3608.html	High Efficiency 1.2MHz 2A Step Up Converter		AEROSEMI	MT3608	SMD	10	
36	1	U3	MIC2019		IC DISTRIBUTION SW ADJ SOT23-6	576-2595-1-ND	Microchip Technology	MIC2019YM6-TR	SMD	10	
37	1	U4	HC-R8812AF1							10	