

Open Power - Prototype 1C

 Digikey Part #	Comment	Pattern	Quantity	Components	Details
TMK212ABJ475MG-T	5.6uF (Substitute 4.7uF)	0805 Capacitor	1	C11	0805 Ceramic Capacitor, 25V Min
GRM21BR61E226ME44L	22uF	0805 Capacitor	2	C12, C13	0805 Ceramic Capacitor, 25V Min
CL10A475MQ8NNNC	4.7uF	0603 Capacitor	2	C1, C3	0603 Ceramic Capacitor
CL10A105MP8NNNC	1uF	0603 Capacitor	4	C2, C4, C5, C8	0603 Ceramic Capacitor
GRM188R61A226ME15D	22uF	0603 Capacitor	2	C6, C7	0603 Ceramic Capacitor
CL10A225KP8NNNC	2.2uF	0603 Capacitor	1	C9	0603 Ceramic Capacitor
B130LAW-7-F	B130LAW	SOD123	1	D1	Schottky Diode, 1A, 30V RRM, 0.42V FWD Voltage, (SXD1)
SS34-HF	SS34	DO-214AC (SMA)	2	D2, D3	Schottky Diode, 3A, 40V RRM, 0.5 FWD Voltage, (SS34)
US1ML-TP	UF4007 (US1M)		1	D4	Diodes - Rectifiers - Hyperfast 1kV 1A 1.7V @ 1A 75ns SMA
MF-PSMF050X-2	MF-PSMF050X-2	0805 Fuse - Gold	1	Fuse1	0805, 6V, 0.5A, (4)
-----	22uH - CD32	CD32	1	L1	CD32-220, Power Inductor, 22uH, 0.5A
-----	22uH - 06030, 22uH, 3A	06030 - 7x7x3mm	2	L2, L3	06030, 22uH, 3A
LTST-C191KRKT	Voltage, Current and Power LEDs	LED - 0603 - Red	8	LED4, LED5, LED6, LED40, LED41, LED42, LED43, LED44	Red, 0603
LTST-C191KFKT	Voltage and Current LEDs	LED - 0603 - Orange	7	LED7, LED8, LED35, LED36, LED37, LED38, LED39	Orange, 0603
LTST-C191KSKT	Voltage and Current LEDs	LED - 0603 - Yellow	7	LED10, LED9, LED30, LED31, LED32, LED33, LED34	Yellow, 0603
LTST-C191KGKT	Voltage and Current LEDs	LED - 0603 - Green	9	LED12, LED13, LED14, LED15, LED25, LED26, LED27, LED28, LED29	Green, 0603
LTST-C191TBKT	Voltage, Current and Charge LEDs	LED - 0603 - Blue	10	LED1, LED16, LED17, LED18, LED19, LED20, LED21, LED22, LED23, LED24	Blue, 0603
LTW-C191DS5	Voltage and Current LEDs	LED - 0603 - White	7	LED2, LED3, LED45, LED46, LED47, LED48, LED49	White, 0603
TC33X-2-502E	5k (VCC Low)	Potentiometer (3x3mm SMD)	2	POT1, POT4	5k, 3mm x 3mm, Single Turn
TC33X-2-104E	100k (FBHigh)	Potentiometer (3x3mm SMD)	1	POT2	100k, 3mm x 3mm, Single Turn
3386P-1-104TLF	3386P-104TLF	3386P-104TLF - Range	2	POT3	100k, 3386P-104TLF, With Knob
YC164-JR-0712KL *****	12k	Resistor Array - 4D03 - 12k - 0603x4	1	R1	Resistor Array, 12k Ohm, 0603, 5%, (123)
YC164-JR-0710KL	10k	Resistor Array - YC164 - 10k - 0603x4	16	R2, R3, R6, R18	Resistor Array, 10k Ohm, 0603, 1%, (1002)
RMCF0603FT82K0	82k*	0603 Resistor	1	R20	1%, 0603
RMCF0603FT100R	100	0603 Resistor	2	R21, R33	1%, 0603
RMCF0603FT2K20	2.2k*	0603 Resistor	1	R22	1%, 0603
RMCF0603FT3K90	3.9k	0603 Resistor	2	R24, R34	1%, 0603
RMCF0603FT1K20	1.2k	0603 Resistor	2	R36, R39	1%, 0603
RMCF0603FT1K80	1.8k	0603 Resistor	2	R37, R40	1%, 0603
RMCF0603FT100K	100k	0603 Resistor	2	R4, R12	1%, 0603
RK73H1JTTD3301F	3.3k*	0603 Resistor	1	R5	1%, 0603
YC164-FR-071KL *****	1k	Resistor Array - CRA034R - 1k - 0603x4	10	R8, R11, R14, R16, R26	Resistor Array, 1k Ohm, 0603, 1%, (1001)
LM339DRG4	LM339	SOIC-14*	10	Q1, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11	Operational Amplifier - LM358 - Quad (SOIC-14)
DMP1045U-7	DMP1045U	Mosfet - Sot23 - Generic	1	Q2	P-Channel, SOT-23, 20V, 3.7A, 01AH
MCP73831T-2ACI/OT	MCP73831T	SOT-23-OT5_N	1	U1	Li-Ion, Li-Polymer Charge Management Controller
XC6206P332MR-G *****	XC6206P332MR-G	SOT-23-3	1	U2	3.3V (Torex) (SOT-23) (3 Pin)
MIC5225-5.0YM5-TR	MIC5225-5.0	SOT23-5	1	U3	5.0V (Microchip) (SOT23-5)
-----	MT3608	SOT23-6	2	U4, U5	2-24V input, 28V output, 2A (Aerosemi) (SOT23-6)
MCP602T-I/ST	MCP602	Tssot-8	1	U6	
10118192-0002LF	10118192-0002LF	Micro USB B	1	USB1	Micro, SMD
-----	Header 1x4	Male Pin Headers	2	P1, P2	Single Row, 4-Pin, Male
-----	Header 2x5	Male Pin Headers	2	P3, P4	Dual Row, 5-Pin, Male
-----	JST (50 mil)	JST - 1.25 - GH - 2 Pin - SMD - Right	1	BATT1	Lipo Connector
-----	XKB5858-Z	Toggle Switch - THRU (6mm x 6mm x 10mm)	1	SW1	THRU (6mm x 6mm x 10mm)(Latching)
***** NOT AVAILABLE IN LOW QUANTITY			Total Components	137	
			Different Type of Components	44	
			SMD Components	130	
			Through Components	7	