Lipo Charge and Boost Module

Rev: V1.0

10/31/2022





Senior Design

	Sour ced	Plac ed	References	Value	Footprint	link	Quant ity
1			C1, C2	4.7uF	C_0805_2012Metric	https://www.digikey.com /en/products/detail /samsung-electro-mechanics /CL21A475KAQNNNG/3894439	2
2			С3	1uF	C_0805_2012Metric	https://www.digikey.com /en/products/detail /samsung-electro-mechanics /CL21B105KAFNNNE/3886724	1
3			R1, R2	5.1k	R_0805_2012Metric	https://www.digikey.com /en/products/detail/yageo /RC0805JR-075K1L/728338	2
4			R4	2k	R_0805_2012Metric	https://www.digikey.com /en/products/detail/yageo /RC0805JR-072KL/728268	1
5			R5	470	R_0805_2012Metric	https://www.digikey.com /en/products/detail/yageo /RC0805JR-07470RL/728333	1
6			R6	3k	R_0805_2012Metric	https://www.digikey.com /en/products/detail/yageo /RC0805JR-073KL/728296	1
7			R7	1k	R_0805_2012Metric	https://www.digikey.com /en/products/detail /stackpole-electronics- inc/RNCP0805FTD1K00/2240229	1
8			L1	10uH	L_0805_2012Metric	https://www.digikey.com /en/products/detail/taiyo- yuden/LBR2012T100K/1788937	1
9			D1	LED	LED_0805_2012Metric	https://www.digikey.com /en/products/detail /stanley-electric- co/VCDB1112H-5AY3B- TR/6615630	1

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	Sour ced	Plac ed	References	Value	Footprint	link	Quant ity
10			D2	1N5819	D_SOD-123F	https://www.digikey.com /en/products/detail /comchip-technology /CDBW140-G/3308555	1
11			U1	MCP73831-2-0T	SOT-23-5	https://www.digikey.com /en/products/detail /microchip-technology /MCP73831T-3ACI-OT/964307	1
12			U2	AP3012	SOT-23-5	https://www.digikey.com /en/products/detail/diodes- incorporated/AP3012KTR- G1/4470846	1
13			U3	Adafruit USB-C	Adafruit SMD Power Only	https://www.adafruit.com /product/4907	1
14			H1, H2, H3, H4	MountingHole	MountingHole_3.2mm_M3_ISO14 580_Pad_TopOnly	N/A	4
15			TP1, TP2, TP3, TP4	TestPoint	TestPoint_Pad_D1.5mm	N/A	4
16			J1, J2	Conn_01x02_Male	JST_PH_S2B-PH- K_1x02_P2.00mm_Horizontal	https://www.digikey.com /en/products/detail/jst- sales-america-inc/S2B-PH- K-S-LF-SN/926626	2

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