





Comment	Description		Footprint	LibRef	Quantity
1042	Battery Holder, 18650, SMD	BT1, BT2, BT3, BT4, BT5, BT6, BT7, BT8,	KEYSTONE_1042	CONN-00077	1
0.40.5	CAP, 0.10uF, 10%,	BT9, BT10, BT11, BT12 C1, C2, C3, C4, C5, C6, C9, C10, C13, C16,		CAP-00072	,
0.10uF	50V, X7R, 0805	C27, C28, C29, C39, C42, C43, C46 C7, C11, C12, C14,	chip_0805	CAP-00072	'
2.2uF	CAP, 2.2uF, ±20%, 100V, X7R, 0603	C15, C17, C18, C19, C20, C22, C23, C24, C25, C26, C33, C35	chip_1210	CAP-00536	1
4700pF	CAP, 4700pF, 10%, 100V, X7R, 0805	C8, C21	chip_0805	CAP-00032	
1uF	CAP, 1uF, 10%, 50V, X7R, 0805	C30, C31, C38, C47	chip_0805	CAP-00109	
4.7uF	CAP, 4.7uF, 10%, 25V, X7R, 0805	C32, C36	chip_0805	CAP-00128	
10000pF	CAP, 10000pF, 10%, 25V, X7R, 0805	C34, C48	chip_0805	CAP-00045	
6pF	CAP, 6pF, ±10%, 50V, C0G, 0603	C37, C41	chip_0603	CAP-00538	
10uF	CAP, 10uF, 10%, 10V,	C40	chip_0805	CAP-00131	
18pF	X7R, 0805 CAP, 18pF, ±1%, 50V,	C44, C45	chip_0603	CAP-00417	
-	COG, 0603 Dio, Silicon, 200mA,				
diode_0	1V, 100V, SOD-123 Dio, Zener, 16V	D1, D8	sod123_0	DIO-00060	
16V	300mW, SOD-523	D2, D3, D4, D5	sod523_0	DIO-00082	
V40PWM10C-M3/I	Dio, Schottky Array, Dual, Common Cathode, 100V 20A, SLIM DPAK	D6	DPAK_SLIM	DIO-00081	
1.5SMC36AT3G	1500 W Peak Power Zener Transient Voltage Suppressor, Unidirectional, 2-Pin SMC, Pb-Free, Tape	D7	ONSC-SMC-2-403- 03_V	CMP-1061-00497-1	
SM05T1G	and Reel Transient Voltage Suppressor Diode Array, Dual Common Anode Diodes for ESD Protection, 3-Pin SOT- 23, Pb-Free, Tape and Reel	D9, D10, D12	ONSC-SOT-23-3-318- 08_V	CMP-1061-00666-1	
2.65V	LED, Green, SMD Right Angle, Low-Current, Kingbright HELI2 Series	D11, D13, D14, D15	APA2107	DIO-00083	
2-1926730-5	Backplane Header, Blades and Pins, Edge Mount Right Angle, 10 Power 25 Signal	J1	TE_CONN_2-1926730- 5	CONN-00093	
1757242	Terminal Blk Header, 2 Pos, 5.08mm, 12A, Right-Angle	J2	PHOENIX_1757242	CONN-00102	
B2B-PH-K	JST PH 2x1, THT, 2.00mm Pitch	J3	JST_PHR_2_0	CONN-00048	
TSW-102-07-F-S	Header, 2x1, 0.1" Fuse Holder, 30A,	34	HDDR_2x1_0 FUSE_HOLDER_KEYST	CONN-00055	
conn-fuse-holder_0	500V, LP-Mini 897, ATOF 257	P1	ONE_3557-2	CONN-00015	
conn-7x1_0	Header, 7x1, 0.1" Header, 5x2, 0.1",	P2	HDDR_7x1_0 SAMTEC_SMD_HDDR	CONN-00105	
TSM-105-01-L-DV-P SUM110P08-11L-E3	SMD XSTR, MOSFET P- Channel, 80V 110A,	P3 Q1, Q2, Q4, Q5	_5x2 D2PAK-3_1	CONN-00071 XSTR-00050	
	D2PAK XSTR PFET, 3A, 60V,				
NDS9407	2.5W, SOIC-8 RES SMD 510 OHM 1%	Q3 R1. R2. R3. R4. R5. R6.	SO-8	XSTR-00036	
510	1/8W 0805	R7	chip_0805	RES-00240	
10k	RES SMD 10K OHM 1% 1/8W 0805	R8, R27, R34, R48, R49, R50	chip_0805	RES-00307	
1k	RES SMD 1K OHM 1% 1/8W 0805	R9, R16, R26	chip_0805	RES-00361	
1M	RES SMD 1M OHM 1% 1/8W 0805	R10, R12	chip_0805	RES-00363	
1K78 1%	1K78 1W 1% 2512	R11	RESC2512(6432)_L	CMP-1018-00536-1	
390k	(6432 Metric) SMD RES SMD 390K OHM	R13	chip_0805	RES-00455	
MOV_0	1% 1/8W 0805 Varistor, Ceramic, 47V	R14	chip_1210	MISC-00057	<u> </u>
	300A 2J, 1210 RES SMD 820K OHM				
820k	1% 1/8W 0805 RES SMD 100K OHM	R15	chip_0805	RES-00567	-
100k	1% 1/8W 0805 RES SMD 0 OHM	R17, R20 R18, R19, R22, R25,	chip_0805	RES-00302	
0	1/8W 0805 Thick Film	R43	chip_0805	RES-00720	
200	RES SMD 200 OHM 1% 1/8W 0805	R21, R24	chip_0805	RES-00197	
0.001	RES, 0.001, 1%, 1W, 2512	R23	chip_2512	RES-00002	
CRCW08056K98FKEA		R28	RESC2013X50X30ML2 0T20	CMP-2001-04091-1	
ERJ-6ENF6192V		R29	RESC2013X70X40ML2 0T20	CMP-2001-00256-1	
330	RES SMD 330 OHM 1% 1/8W 0805	R30, R31, R35, R36, R37, R38	chip_0805	RES-00222	
100	RES SMD 100 OHM 1%	R32, R33, R39, R40,	chip_0805	RES-00179	
4.7k	1/8W 0805 RES SMD 4.7K OHM	R41, R42 R44, R47	chip_0805	RES-00471	
	1% 1/8W 0805 RES SMD 24K OHM 1%	R45		RES-00471	
24k	1/8W 0805 RES SMD 3.3K OHM		chip_0805		-
3.3k	1% 1/8W 0805	R46	chip_0805	RES-00420	
SW_1P1T_0	Switch 1P1T, KS E- Switch, Circular	SW1	KS_SW_0	MISC-00001	
BQ77PL900	Batt Manager, Li-Ion, 5-10 cells, bq77PL900	U1	SSOP-48_0	PWREG-00024	
STM32F103C8	STM32 M3, LQFP-48 IC, Voltage Reference,	U2	LQFP48_0	UCTRL-00008	-
REF50xx	2.5V, 3ppm/*C, REF5020 XTAL, 32.768kHz, 6pF,	U3 Y1	SO-8_1 ABS25 OSC	ANLG-00055 OSC-00003	
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osc_xtal_2p_0 osc_xtal_4p_1-3	20ppm XTAL, 8MHz, 10pF,	Y2	ECX-53B	OSC-00006	