





Comment	Description	Designator	Footprint	LibRef	Quantity
1042	Battery Holder, 18650,	BT1, BT2, BT3, BT4, BT5, BT6, BT7, BT8,	KEYSTONE_1042	CONN-00077	
	SMD CAP. 0.10uF. 10%.	BT9, BT10, BT11, BT12 C1, C2, C3, C4, C5, C6, C9, C10, C13, C16.			
0.10uF	50V, X7R, 0805	C9, C10, C13, C16, C27, C28, C29, C39, C42, C43 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	
4700pF	CAP, 4700pF, 10%, 100V, X7R, 0805	C8, C21	chip_0805	CAP-00032	
1uF	CAP, 1uF, 10%, 50V, X7R, 0805	C30, C31, C38, C47	chlp_0805	CAP-00109	
4.7uF	CAP, 4.7uF, 10%, 25V, X7R, 0805	C32, C36	chip_0805	CAP-00128	
10000pF	CAP, 10000pF, 10%,	C34, C48	chip_0805	CAP-00045	
6pF	25V, X7R, 0805 CAP, 6pF, ±10%, 50V,	C37, C41	chip_0603	CAP-00538	
10uF	COG, 0603 CAP, 10uF, 10%, 10V,	C40	chip_0805	CAP-00131	
	X7R, 0805 CAP, 18pF, ±1%, 50V,				
18pF	COG, 0603 CAP, 0.1uF, ±10%.	C44, C45	chip_0603	CAP-00417	
cap_single_np	16V, X7R, 0603 Dio, Silicon, 200mA.	C46	chip_0603	CAP-00542	
dlode_0	1V, 100V, SOD-123	D1, D8	sod123_0	DIO-00060	
16V	Dio, Zener, 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	D7	ONSC-SMC-2-403- 03_V	CMP-1061-00497-1	
SM05T1G	SMC, Pb-Free, Tape 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	Jı	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	
conn-fuse-holder_0	Fuse Holder, 30A, 500V, LP-Mini 897, ATOF 257	P1	FUSE_HOLDER_KEYST ONE_3557-2	CONN-00015	
conn-5x2_0	Header, 10-pin IDC, 2.54mm Pitch	P4	CNC_TECH_3020-10- 0100-XX	CONN-00054	
conn-2x1_0 SUM110P08-11L-E3	Header, 2x1, 0.1" XSTR, MOSFET P- Channel, 80V 110A, D2PAK	Q1, Q2, Q4, Q5	hddr_2x1_0 D2PAK-3_1	CONN-00055 XSTR-00050	
NDS9407	XSTR PFET, 3A, 60V,	03	SO-8	XSTR-00036	
510	2.5W, SOIC-8 RES SMD 510 OHM 1%	R1, R2, R3, R4, R5, R6,	chip_0805	RES-00240	
	1/8W 0805 RES SMD 10K OHM 1%	R7 R8, R27, R34, R48,			
10k	1/8W 0805 RES SMD 1K OHM 1%	R49, R50	chip_0805	RES-00307	
1k	1/8W 0805 RES SMD 1M OHM 1%	R9, R16, R26	chip_0805	RES-00361	
1M	1/8W 0805	R10, R12	chip_0805	RES-00363	
1K78 1%	1K78 1W 1% 2512 (6432 Metric) SMD	R11	RESC2512(6432)_L	CMP-1018-00536-1	
390k	RES SMD 390K OHM 1% 1/8W 0805	R13	chip_0805	RES-00455	
MOV_0	Varistor, Ceramic, 47V 300A 2J, 1210	R14	chip_1210	MISC-00057	
820k	RES SMD 820K OHM 1% 1/8W 0805	R15	chip_0805	RES-00567	
100k	RES SMD 100K OHM 1% 1/8W 0805	R17, R20	chip_0805	RES-00302	
0	RES SMD 0 OHM	R18, R19, R22, R25,	chip_0805	RES-00720	
200	1/8W 0805 Thick Film RES SMD 200 OHM 1%	R43 R21, R24	chip_0805	RFS-00127	
	1/8W 0805 RES, 0.001, 1%, 1W,				-
0.001	2512	R23	chip_2512 RESC2013X50X30ML2	RES-00002	-
CRCW08056K98FKEA		R28	0T20	CMP-2001-04091-1	
ERJ-6ENF6192V	oro or to	R29	RESC2013X70X40ML2 0T20	CMP-2001-00256-1	
res_single	RES SMD 470 OHM 1% 1/4W 0603	R30, R31	chip_0603	RES-00236	
100	RES SMD 100 OHM 1% 1/8W 0805	R32, R33, R39, R40, R41, R42	chip_0805	RES-00179	
330	RES SMD 330 OHM 1% 1/8W 0805	R35, R36, R37, R38	chip_0805	RES-00222	
4.7k	RES SMD 4.7K OHM 1% 1/8W 0805	R44, R47	chip_0805	RES-00471	
24k	RES SMD 24K OHM 1% 1/8W 0805	R45	chip_0805	RES-00400	
3.3k	RES SMD 3.3K OHM 1% 1/8W 0805	R46	chip_0805	RES-00420	
SW_1P1T_0	Switch, SPST, Tactile,	SW1	KMR6	MISC-00024	
BQ77PL900	32V 50mA Batt Manager, Li-Ion,	U1			-
STM32F103C8	5-10 cells, bq77PL900 STM32 M3, LQFP-48	U1 U2	SSOP-48_0 LQFP48_0	PWREG-00024 UCTRL-00008	-
REF50xx	IC, Voltage Reference, 2.5V, 3ppm/*C, REF5020	U3	SO-8_1	ANLG-00055	
	XTAL, 32.768kHz, 6pF,		ABS25 OSC	OSC-00003	
osc_xtal_2p_0	20ppm	Y1	AB225_USC	USC-00003	