





Comment	Description	Designator	Footprint	LibRef	Quantity
1042	Battery Holder, 18650, SMD	BT1, BT2, BT3, BT4, BT5, BT6, BT7, BT8, BT9, BT10, BT11, BT12	KEYSTONE_1042	CONN-00077	1:
0.10uF	CAP, 0.10uF, 10%, 50V, X7R, 0805	C1, C2, C3, C4, C5, C6, C9, C10, C13, C16, C27, C28, C29, C39, C42, C43	chip_0805	CAP-00072	10
2.2uF	CAP, 2.2uF, ±20%, 100V, X7R, 0603	C7, C11, C12, C14, C15, C17, C18, C19, C20, C22, C23, C24, C25, C26, C33, C35	chip_1210	CAP-00536	10
4700pF	CAP, 4700pF, 10%, 100V, X7R, 0805	C8, C21	chip_0805	CAP-00032	:
1uF	CAP, 1uF, 10%, 50V, X7R, 0805	C30, C31, C38	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, C40	chip_0805	CAP-00045	:
6pF	CAP, 6pF, ±10%, 50V, COG, 0603	C37, C41	chip_0603	CAP-00538	:
18pF	CAP, 18pF, ±1%, 50V, COG, 0603	C44, C45	chip_0603	CAP-00417	
cap_single_np	CAP, 0.1uF, ±10%, 16V, X7R, 0603	C46	chip_0603	CAP-00542	
diode_0	Dio, Silicon, 200mA,	D1, D8	sod123_0	DIO-00060	
16V	1V, 100V, SOD-123 Dio, Zener, 16V	D2, D3, D4, D5	sod523_0	DIO-00082	
	300mW, SOD-523 Dio, Schottky Array,				
V40PWM10C-M3/I	Dual, Common Cathode, 100V 20A, SLIM DPAK 1500 W Peak Power	D6	DPAK_SLIM	DIO-00081	
1.5SMC36AT3G	Zener Transient Voltage Suppressor, Unidirectional, 2-Pin SMC, Pb-Free, Tape and Reel	D7	ONSC-SMC-2-403- 03_V	CMP-1061-00497-1	
SM05T1G	Transient Voltage Suppressor Diode Array, Dual Common Anode Diodes for ESD Protection, 3-Pin SOT- 23, Pb-Free, Tape and Reel	D9, D12	ONSC-SOT-23-3-318- 08_V	CMP-1061-00666-1	:
2.2V	LED, Green, 0603, 20mA	D10, D11, D13, D14	chip_0603_LED	DIO-00040	
2-1926730-5	Backplane Header, Blades and Pins, Edge Mount Right Angle, 10	Jı	TE_CONN_2-1926730- 5	CONN-00093	
conn-fuse-holder_0	Power 25 Signal Fuse Holder, 30A, 500V, LP-Mini 897, ATOF 257	P1	FUSE_HOLDER_KEYST ONE_3557-2	CONN-00015	
conn-2x1_0	Terminal Block, 2 Pos, 10A, 5.08mm Pitch, SMD, Right-Angle, 16-	P2	PHOENIX_SPT_SMD_5 .08MM_2x1	CONN-00065	
conn-2x1_0	24 AWG Header, 2x1, 0.1"	P3, P5	HDDR_2x1_0	CONN-00055	
conn-5x2_0	Header, 10-pin IDC, 2.54mm Pitch	P4	CNC_TECH_3020-10- 0100-XX	CONN-00054	
n-mosfet_GxSD	XSTR, MOSFET P- Channel, 80V 110A, D2PAK	Q1, Q2, Q4, Q5	D2PAK-3_1	XSTR-00050	
NDS9407	XSTR PFET, 3A, 60V, 2.5W, SOIC-8	Q3	SO-8	XSTR-00036	
510	RES SMD 510 OHM 1% 1/8W 0805	R1, R2, R3, R4, R5, R6, R7	chip_0805	RES-00240	
10k	RES SMD 10K OHM 1% 1/8W 0805	R8, R27, R33, R34	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% 2512(6432)	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%	R21, R24	chip_0805	RES-00197	
0.001	1/8W 0805 RES, 0.001, 1%, 1W,	R23	chip_0003	RES-00002	
CRCW08056K98FKEA	2512	R28	RESC2013X50X30ML2	CMP-2001-04091-1	
ERJ-6ENF6192V		R29	0T20 RESC2013X70X40ML2	CMP-2001-04091-1	
	RES SMD 470 OHM 1%		0T20		
res_single	1/4W 0603 RES SMD 40.2K OHM	R30, R31	chip_0603	RES-00236	
40.2k	1% 1/8W 0805 RES SMD 330 OHM 1%	R32	chip_0805	RES-00474	
330	1/8W 0805 Switch, SPST, Tactile,	R35, R36, R37, R38	chip_0805	RES-00222	
SW_1P1T_0	32V 50mA	SW1	KMR6	MISC-00024	
BQ77PL900 STM22E102C0	Batt Manager, Li-Ion, 5-10 cells, bq77PL900	U1	SSOP-48_0 LQFP48_0	PWREG-00024	
STM32F103C8	STM32 M3, LQFP-48 XTAL, 32.768kHz, 6pF,	U2		OSC-00003	
osc_xtal_2p_0	20ppm	Y1	ABS25_OSC	USC-00003	