

Designator	Quantity	Value	PackageReference	Description	Manufacturer	Manufacturer
U8	1	HV5122PJ-G/HV5222PJ-G	PLCC-44	Header, 6-Pin, Dual row		Microchip
U7	1	RT8258 (or Opt: LMR12010, LMR12007, MCP16301)	SOT23-6	1.6MHz (X) and 3.0MHz (Y) Step-down in SOT23-6		
U6	1	LM3478MAX/LM3478	SOIC-8/VSSOP-8	IC REG CTRLR BST PWM 8-SOIC		TI
U5	1	DS3231S/DS3231MZ	SOIC-16W/SOIC-8			
U4	1	ULN2003D	SOIC-16	Darlington Transistor, SOIC-16	TI	
U3	1	CD4504BM	SOIC-16	Darlington Transistor, SOIC-16	TI	
U1, U2	2	HV5122PJ-G/HV5222PJ-G	PLCC-44	Header, 6-Pin, Dual row		Microchip
TEMP1	1	PH2.0-3p	PH2.0-3p		Any	
SP1	1	PLD-4		Header, 2-Pin, Dual row		
R5222	1	0	805	Resistor		Any
R63	1	18.2k	805	Resistor		Any
R62	1	95.3k	805	Resistor		Any
R61	1	0.1 Ohm	2512	Resistor		Any
R58	1	10k	3296W	Resistor		Any
R56	1	4.7k	805	Resistor		Any
R55	1	10K Opt	805	Resistor		Any
R51	1	1 Ohm	1206	Resistor		Any
R50	1	1.5 MOhm	805	Resistor		Any
R44	1	51 Ohm	805	Resistor		Any
R41, R42, R67	3	10k	805	Resistor		Any
R37, R38, R48, R54	4	1k	805	Resistor		Any
R11, R12, R13, R14, R15, R16, R19, R20, R21, R22, R23, R24, R27, R28, R29, R30, R31, R32, R33, R34, R35, R39, R40, R43, R65	25	150 Ohm	805	Resistor		Any
R5, R6, R7, R8, R9, R10, R25, R26	8	27k	805	Resistor		Any
R1, R2, R3, R4, R17, R18, R36	7	150k	805	Resistor		Any
Q1	1	FDD6N25	DPAK	HEXFET Power MOSFET	ST	
PWR1	1	PLS-3	PLS-3	Header, 4-Pin	Any	
NX1, NX2, NX3, NX4, NX5, NX6, NX7, NX8	8	IN-12A/B				
L2	1	22uH 2A	SMD 10.8x10.8mm	Inductors		Sumida
L1	1	220uH 1.2A	SMD 12x12mm	Inductor	AnlaTech/IH	
IR1	1	TSOP4836	DIP-3	Header, 6-Pin	Vishay	
GPS1-1, TEMP	2	Jack 3.5mm	ST-11M-030-00-0	Stereo Jack 2.5mm, Right Angle, Surface Mount, 9mm Wide; 3-Position; Non-thread	Sun Rise	
ExDOWN, ExMODE, ExUP	3	PH2.0-2p		Header, 4-Pin		
DS1, DS2, DS3, DS4, DS5, DS6	6	NE-2H	30x7mm	Neon Lamp		
DOWN, MODE, UP	3	SWT-3/13	SWT-3/13, h=13, L=9	Tact button switch	Any	
DG3	1	PLS-3	PLS-3		Any	
DG2	1	PLS-6	PLS-6	Header, 6-Pin	Any	
DG1	1	PLS-10	PLS-10	Header, 10-Pin	Any	
D15	1	SS26	SMA	Schottky Diode SS16	Any	
D14	1	SMBJ220CA	SMB	SMBJ220CA	Littlefusw	
D12	1	LED Pow	1206	LED 1206	Any	
D10	1	1N4148 Opt	SOD-80C	Diode	Any	
D9	1	ES2J	SMB	Fast Diode ES2F SMB	Any	
D1, D2, D3, D4, D5, D6, D7, D8	8	KT-SMD3528-RGB	3528 (PLCC-4)	Default Diode		
C18	1	100nF 250V	1206	Capacitor		Any
C15	1	10uF 250V Low ESR	TH & SMD D10mm	CAP_TH_SMD_10mm	Hitano	
C14	1	10nF 50V	805	Capacitor		Any
C12, C13, C19, C20	4	10uF 16V	805	Capacitor		Any
C11, C16	2	220uF 16V	SMD 6.3x7.7mm	CAP_SMD_63x77mm	Hitano	
C7	1	10uF 16V Size-A	Size-A (SMD3216)	Capacitor 10uF 10V Size-A	Any	
C1, C2, C3, C4, C5, C6, C8, C9, C10, C21, C22, C23	12	100nF 50V	805	Capacitor		Any
BT1	1	CR1220 (KEYS1056)	SMD	Socket; Size: BR1220,CR1220; Mounting: SMD, horizontal; Batt.no:1		KEYSTONE
B1	1	HCS0903G	SMD 8.5x8.5mm	KLS3-MWC-12*7.5-B1, D12x7.5mm	JL World	
AN1	1	PLS-6	PLS-6	Header, 6-Pin	Any	