

No.	Item	Description	LibRef	Designator	Footprint	Quantity
1	heat shrink tube		heat shrink tube in C1 pin	1		1
2	rectifier bridge	UG4KB80,4A,800V,10.8*13.8mm(L*W),GULFSEMI, DIP, kenjet company	BR/UG4KB80	BR1	GBP	1
3	electrolytic capacitor	KXJ,150uF,400V,±20%,P:7.5*18*40,DIP,105°C	C/150uF/400V/DIP	C1	DIP	1
4	capacitor	100uF,35V,ψ6.3*11	C/100uF/35V/DIP	C7	DIP	1
23	inductance	*MAG,LAYERS,MCD-0608S-102MU-F-EV,1mH,0.25A,ψ8mm*10mm,DIP	L/1mH/DIP	L2	DIP	1
15	common mode Choke	Common mode Choke	20mH/4A	CM1	DIP	1
19	X capacitance	Metallized plastic AC capacitor PXX , 0.22uF(224) , 275V , Class X2 , AC/±10% , 12*12*6(L*T*H) , Pitch: 10 ;	0.22uF/275V/DIP	CX1, CX2	DIP	2
25	NTC Thermistor	THINKING,SCK10054MSY,5R,4A,ψ10mm,P:5mm,DIP	NTC/SCK10054MSY/DIP	THR1	DIP	1
24	Varistor	TKS,TVR10471KSY,470V,±10%,ψ10mm,D:12.5mm,Pitch:7.5mm,DIP	VDR/TVR10471KSY	MOV1	DIP	1
16	Connector	CHERNG WEEI,P101-SGP-100/030-4,Pitch:2.54mm,4Pin,180 angle,L:10.16mm*W:2.54mm*H:10mm,Header,F	PH-1*4/P2.54/180 NC	CN1, CN2		2
17		Header 180 angle,CP-W15-02,Pitch:1.5mm,2Pin, cherng weei company	CON2/P1.5/180	HEAT_SW, NTC		2
18		TKP,P110L-05,P:2.0,5Pin,90 angle,12*7.6*4.6,DIP	CON5/P2.0/90	LED		1
22	SMD fuse	3.5A,250V,6.1mm*2.6mm(2410)	FUSE/3.5A/250V/6.1*2.6/SMD	F1	SMD2410	1
26	SMD Thermistor	Murata,NCP18XV103J03RB,10KΩ,β:3900,0.31mA(25°C),100mW,SMD,0603,-40°C~+125°C	NTC/NCP18XV103J03RB/0603	NTC1	SMD0603	1
28	SCR	Silicon Bidirectional Triode Thyristor	BT139-800	Q7	TO-220AB	1
49	optocoupler	TOSHIBA,TLP265J,4Pin,SMD,Photocouplers,10mA(IF),600V	IC/TLP265J	U4	SMD	1
48		EVERLIGHT,EL3H4A,4Pin,SMD,AC Input Photocoupler,1mA(IF),5V(VCE)	IC/EL3H4A	PH1, PH2	SMD	2
47	DC-DC	Greenergy,GR8903AKAG,SOP-7,SMD,Vo=15V,Iomax=0.25A	IC/GR8903/SOP-7	U3	SOP-7	1
50	LDO	MGR78L05,SOT89-3	IC/MGR78L05/SOT-89	U5	SOT89-3	1
46	MCU	MDRFD0AD48,LQFP48	IC/MDRFD0AD48/LQFP48	U1	LQFP-48	1
27	MOS	Megawin,MGM07N65,650V,7A,1.4Ω,TO-252,SMD,N-Channel Fast Switching MOSFET	MGM07N65/TO-252	Q1, Q2, Q3, Q4, Q5, Q6	TO-252	6
20	diode	PANJIT,ES1J ,600V,1A,DO-214AC,SMD	D/ES1J/SMA(DO-214AC)	D3, D4	DO-214AC	2
21		PANJIT,ES1006FL ,600V,1A,SOD-123FL,SMD	D/ES1006FL/(SOD-123FL)	D5, D6, D7	SOD-123FL	3
5	SMD capacitance	2nF/50V/±15%/X7R,0603	C/2nF/50V	C9, C10, C13, C14, C24, C25, C27	C0603	7
6		0.01uF(103)(10n),50V,±10%,X7R,0603	C/0.01uF/50V	C3, C4,C29	C0603	3
7		47nF,50V,±10%,X7R,0603	C/47nF/50V	C6	C0603	1
8		0.1uF(104)(100n),50V,±10%,X7R,0603	C/0.1uF/50V	C12, C17, C18,C20, C22, C31,C32	C0603	7
9		1uF(105),16V,±10%,X7R,0603	C/1uF/16V	C15, C28	C0603	2
10		10uF(106),25V,+/-10%,X5R,0603	C/10uF/25V	C23	C0603	1
11		1uF(105)(1000n) , 50V , -20+80% , X7R , 0805	C/1uF/50V/0805	C16, C19, C21	C0805	3
12		47nF,630V,±10%,1206	C/47nF/630V/1206	C2	C1206	1
13		10uF,50V,±20%,X5R,1206	C/10uF/50V/1206	C5, C8, C30	C1206	3
14		NC	NC	C11,C26		0
29	SMD resistance	100R,1%,0603	R/100R/0603	R20, R24	R0603	2
30		330R,1%,0603	R/330R/0603	R5, R12, R13, R14, R18, R19	R0603	6
31		1K,1%,0603	R/1K/0603	R3,R30, R31, R32, R34	R0603	5
32		2K,5%,0603	R/2K/0603	R26, R33, R46	R0603	3
33		10KΩ,5%,0603	R/10K/0603	R6, R15, R16, R17, R21, R23, R25, R36, R40,R43	R0603	10
34		51K,1%,0603	R/51K/0603	R8, R9, R10	R0603	3
35		10R,1%,0805	R/10R/0805	R44	R0805	1
36		510R,1%,0805	R/510R/0805	R37	R0805	1
37		0.1R,1%,1206,1W	R/0.1R/1206/1W	RS1, RS2, RS3	R1206	3
38		3.3R,1%,1206	R/3.3R/1206	R7	R1206	1
39		22R,1%,1206	R/22R/1206	R38, R39	R1206	2
40		150R,1%,1206	R/150R/1206	R11	R1206	1
41		240K,5%,1206	R/240K/1206	R4, R22, R29, R35	R1206	4
42		470K,1%,1206	R/470K/1206	R27, R28	R1206	2
43		510K/1206	R/510K/1206	R1, R2	R1206	2
44		150R,1%,1206	NC	R41,R42	R1206	0
45		0R/0603	NC	J_RX, J_TX	R0603	0
51	EEPROM	MicroChip,24LC02BT-I/SN,2K,8PIN,I2C/SOIC-8,EEPROM,SMD	IC/24LC02/SOP-8	U6	SOP-8	0
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