

Item	Qty	Ref	Type	Part Number	Value	Package	Manufacture	Description
1	1	D2	Switching diode	BAS20LT1G	0.2A, 200V	SOT23	ON Semiconductor	Switching Diode, 0.2A,/200V
2	1	C5	Ceramic	Ceramic	22pF	603	Murata	Capacitor, Ceramic,22pF,0603,10%
3	2	C6 C16	Ceramic	Ceramic	NA	603	Murata	NA
4	1	C8	Ceramic	GRM32ER7YA106KA12L	NA	1206	Murata	NA
5	1	C7	Ceramic	Ceramic	2.7uF/10v	603	Murata	Capacitor, Ceramic, 2.7uF/10V, 0603, 10%
6	1	C10	Ceramic	Ceramic	1uF/50v	805	Murata	Capacitor, Ceramic, 1uF/50V, 0805, 10%
7	1	C13	Ceramic	Ceramic	0.1uF/50v	805	Murata	Capacitor, Ceramic, 0.1uF/50V, 0805, 10%
8	1	C15	Ceramic	C3216C0G2J471J	NA	805	TDK	NA
9	1	C1	Metallized Polypropylene File		473/400v	Leaded, Size<12mm(L)X6mm(V		Metallized Polypropylene File, CBB21, 0.047uF/400V, +/-10%, pin distance: 10mm
10	1	C2	Metallized Polypropylene File		473/400v	Leaded, Size<12mm(L)X6mm(V		Metallized Polypropylene File, CBB21, 0.047uF/400V, +/-10%, pin distance: 10mm
11	1	C3	Ceramic	C3216X7R2J332K	3.3nF/630v	1206	TDK	Capacitor, Ceramic,3.3nF/630V, 1206
12	1	D1	Bridge rectifier	DF06S/DF1506S	1A,600V	DFS	DIODES/Vishay	Bridge Rectifier, 600V,1A, DFS
13	1	D5	Ultrafast diode	ES3F	3A,300V	SMC	Vishay	Diode,ultra fast, 3A,300V, SMC
14	1	D3	General rectifier	4007/SMA	1A, 1000V	SMA	ON/Diodes	Standard Rectifier, 1A,1000V, SMA
15	1	FB1	Ferrite bead					NA
16	1	F1	FUSE	3691100000	1A/300Vac (T)		Littlefuse	Square fuse, 1A/300V, size: 8.5mm(L)X4(W)mmX8mm(H)
17	1	L2	common filter		NA		HuahenAo	NA
18	1	L3	common filter	EE12	30mH		HuahenAo	
19	1	L4	common filter		100uH		HuahenAo	
20	1	L1	Radial leaded eire wound inductor		2.2mH/0.3A		HuahenAo	2.2mH/0.3A, size: 8mm*10mm
21	1	C9	X CAP		68nF/X2	Lead spac std		X2 CAP, 68nF, Size: 12.5mm(L)X8mm(W)X13.5mm(H), pin distance: 10mm
22	1	C14	Y CAP	B2GA102KYNS/DE1B3KX102K	102/Y1	Lead spac	TDK/Murata	Y1 CAP, 1nF
23	1	T1	Transformer	ECR28			HuahenAo	ECR28, 10pin Horizontal bobbin
24	2	R2 R11	Resistor	Resistor	NA	603	Yageo	NA
25	1	R8	Resistor	Resistor	50k	805	Yageo	Resistor, Chip, 1/5W, 1%
26	1	R9	Resistor	Resistor	18k	603	Yageo	Resistor, Chip, 1/8W, 1%
27	1	R10	Resistor	Resistor	6.8k	603	Yageo	Resistor, Chip, 1/8W, 1%
28	2	R5 R24	Resistor	Resistor	0R	805	Yageo	Resistor, Chip, 1/5W, 5%
29	1	R13	Resistor	Resistor	51k	603	Yageo	Resistor, Chip, 1/8W, 5%
30	1	R16	Resistor	Resistor	47k	603	Yageo	NA

31	1	R17	Resistor	Resistor	1.3M	603	Yageo	Resistor, Chip, 1/8W, 1%
32	1	R20	Resistor	Resistor	100k	603	Yageo	Resistor, Chip, 1/8W, 1%
33	1	R12	Resistor	Resistor	4.7k	603	Yageo	NA
34	1	R25	Resistor	Resistor	NA	805	Yageo	NA
35	1	R14	Resistor	Resistor	1R	1206	Yageo	Resistor, 1206, 1/4W, 1%
36	1	R15	Resistor	Resistor	1.7R	1206	Yageo	Resistor, 1206, 1/4W, 1%
37	1	R1	Resistor	Resistor	10k	805	Yageo	Resistor, Chip, 1/5W, 5%
38	1	R3	Resistor	Resistor	62R	1206	Yageo	Resistor, Chip, 1/4W, 5%
39	2	R4 R21	Resistor	Resistor	75K	1206	Yageo	Resistor, Chip, 1/4W, 5%
40	2	R18 19	Resistor	Resistor	6.8M	1206	Yageo	Resistor, Chip, 1/4W, 5%
41	1	R6	Resistor	Resistor	150k	1206	Yageo	Resistor, Chip, 1/4W, 5%
42	2	R22-23	Resistor	Resistor	NA	1206	Yageo	NA
43	1	R7	Resistor	Resistor	150k	1206	Yageo	Resistor, Chip, 1/4W, 5%
44	1	C4	Electrolytic capacitor	Electrolytic capacitor	22uF/35V	6.3mm(die	Nichicon SV series	Electrolytic capacitor, 22u/35v, size, 6.3mmx7mm
45	2	C11-12	Electrolytic capacitor	Electrolytic capacitor	330uF/50V	12.5mm(di	Panasonic EB series,	Electrolytic capacitor, 330u/50v, size, 12.5mmx20mm
46	1	D4	Switching diode	MMDL914T1G	0.2A,200V	SOD323	ON Semiconductor	Switching diode, 0.2A, 100V
47	1	D7	Switching diode	NA	0.2A,200V	SOD323	ON Semiconductor	NA
48	4	L,N, LED+, LED-						10mm单根排针
49	1	U1	Controller	TPS92310		MSOP-10	TI	Primary current sense controller
50	1	Q1	MOSFET	SPD4N80C3/STD4NK80Z	4A, 800V	DPAK	Infineon/ST	MOSFET, N-ch, 800V, 4A
51	1	Q3	MOSFET	2N7002L	0.115A, 60V	SOT23	Std	NA
52	1	Q4	MOSFET	2N7002L	0.115A, 60V	SOT23	Std	MOSFET, N-ch, 60V, 0.115A

注意事项

1. 所有description栏中标记为NA的元件不焊接
2. FB1用跳线代替
3. L2分别用两根跳线代替
4. L, N, LED+, LED-四个端子用10mm高的排针来代替
5. 共有两种输出参数, 38V-42V/420mA和22V-42V/420mA, 使用不同的变压器, 同时还要更改R8.
R8=50K, 输出38V-42V
R8=75K, 输出22V-42V

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