9 Component list

Table 2 Bill of materials

No.	Designator	Description	Footprint	Part Number	Manufacturer	Quantity	
1	BR1	(800V/1A)	SOP-4	D1UBA80	SHINDENGEN	1	
2	C12	2.2nF/250V	MKT2/13/10_0M8	DE1E3KL222MC4BNA1S	MURATA	1	
3	C13, C13A	15uF/400V	RB10H(10x16)	400AX15M10X16	RUBYCON	2	
4	C15	1nF/1000V	0805	C0805X102KDRACTU		1	
5	C16	22uF/35V	1206	C3216X5R1V226M		1	
6	C17	100nF/50V	0402	GRM155R71H104KE14D	MURATA	1	
7	C18, C26	1nF/50V	0402	GRM155R71H102KA01D	MURATA	2	
8	C19	47pF/50V	0402	GRM1555C1H470JA01D	MURATA	1	
9	C21	560pF/100V	0603	GRM1885C2A561JA01D	MURATA	1	
10	C22	820uF/6.3V	RB6.3	MP6RL820MC8		1	
11	C24	450uF/6.3V	RB5	MP6RL450MB8		1	
12	C25	220nF/25V	0402	GRM155C81E224KE01D	MURATA	1	
13	C27	1uF/25V	0402	GRM155R61E105KA12D	MURATA	1	
14	D11	600V/1A	Sub SMA	ES1JL		1	
15	D12,D13	200V/0.25A	SOD323	BAS21-03W	~~INFINEON~~	2	
16	D21	45V/5A	DO-221AC (slimSMA)	VSSAF5L45		1	
17	F1	250V/1A	AXIAL0.4_V 3mm	0263001.HAT1L		1	
18	FB21	FAIR RITE	AXIAL0.4_V 3mm	2743002112		1	
19	IC11	ICE2QS03G	SO-8	ICE2QS03G	~~INFINEON~~	1	
20	IC12	TCMT1103	optocoupler half pitch mini flat package	TCMT1103		1	
21	IC21	TL431	SOT-23	TL431BFDT		1	
22	IC22	UCC24610	SO-8	UCC24610		1	
23	L	connector	Connector	5000RED		1	
24	L11	1mH/0.5A	CH8	768772102	WURTH ELECTRONICS	1	
25	N	Connector N(2.5)	Connector(2.5)	5001BLACK		1	
~~26~~	~~Q11~~	~~650V/1R~~	~~TO251(IPAK)~~	~~IPS65R1K5CE~~	~~INFINEON~~	~~1~~	not assembled
27	Q21	60V/6.7mR	INF-PG-TDSON81	BSC067N06LS3 G	~~INFINEON~~	1	
~~28~~	~~R11,R11A~~	~~200k/400V/0.5W~~	~~0805~~	~~ERJP06F2003V~~		~~2~~	not assembled
29	R12, R15	10R	0402			2	
30	R12A, R13, R14B	0R	0402			3	
31	R12B	43k/1%	0402			1	
32	R12C	10k/1%	0402			1	
33	R14, R14A	2R/0.33W/1%	1206	ERJ8BQF2R0V		2	
34	R18	10k	0402			1	
35	R21	47R/0.5W	0805	ERJP6WF47R0V		1	
36	R22	130R	0402			1	
37	R23	1.2k	0402			1	
38	R24	12k	0402			1	
39	R25, R26	20k	0402			2	
40	R27	2R	0402			1	
41	R28	68k	0402			1	
42	R29	220k	0402			1	
43	R30	43.2k	0402			1	
44	R31, R33	51.1k	0402			1	
45	R32	75k	0402			1	
46	TR1	718uH(66:5:16) RM6(TP4A)	TR_RM6_THT6Pin			1	
47	USB Port	USBPORT	USB2 Short(Horizontal)	JL-CAF-001		1	
48	ZD11	22V Zener	SOD323	UDZS22B		1	