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All resistors are 1% tolerance unless otherwise indicated
All capacitors are X7R or COG dielectric unless otherwise indicated

Index	Quantity	Reference	Description	Value / Generic PN	Package	Manufacturer	Manufacturer's ordering code / Orderable Part	Note
1	1	C1	SMT ceramic capacitor	10nF/25V/X7R	Size 0603 (1608 Metric)			
2	15	C2,C3,C4,C42,C43,C46,C47,C55,C56,C59,C60,C68,C69,C72,C73	SMT ceramic capacitor	10pF/50V/NP0	Size 0603 (1608 Metric)	Würth Elektronik	WE-885012006051 or Equivalent	
3	24	C5,C6,C17,C22,C29,C30,C36,C49,C62,C74,C76,C77,C78,C79,C80,C83,C85,C	SMT ceramic capacitor	100nF/25V/X7R	Size 0603 (1608 Metric)	Würth Elektronik	WE-885012206071 or Equivalent	
4	6	C7,C27,C28,C31,C33,C90	SMT ceramic capacitor	1nF/50V/X7R	Size 0603 (1608 Metric)			
5	3	C8,C12,C14	SMT ceramic Y-Capacitor	2.2nF/YCap	Size 2211	Würth Elektronik	WE-8853522130151 or Equivalent	
6	3	C9,C10,C11	THT Film X-Capacitor	1uF/XCap	Pitch 15 mm, 13x18 mm	KEMET	F861BZ105M310Z or Equivalent	
7	5	C13,C23,C101,C102,C103	THT Electrolytic Capacitor	N.M.	Diam. 12.5mm p. 5mm	Chemi-Con	EKXN451ELL820MK40S or Equivalent	
8	4	C15,C19,C26,C32	SMT ceramic capacitor	1uF/25V/X7R	Size 0603 (1608 Metric)			
9	1	C16	SMT ceramic capacitor	390pF/25V/NP0	Size 0603 (1608 Metric)			
10	1	C20	SMT ceramic capacitor	22nF/25V/X7R	Size 0603 (1608 Metric)			
11	2	C21,C34	SMT ceramic capacitor	22uF/25V/X5R	Size 0805 (2012 Metric)			
12	4	C24,C38,C51,C64	SMT ceramic capacitor	68nF/630V/X7R	Size 1210 (3225 Metric)			
13	6	C35,C37,C48,C50,C61,C63	SMT ceramic capacitor	220nF/25V/X7R	Size 0603 (1608 Metric)			
14	6	C39,C40,C52,C53,C65,C66	SMT ceramic capacitor	2.2nF/16V/X7R	Size 0603 (1608 Metric)			
15	3	C41,C54,C67	SMT ceramic capacitor	100nF/25V/X7R	Size 0805 (2012 Metric)			
16	3	C44,C57,C70	SMT ceramic capacitor	330pF/50V/NP0	Size 0603 (1608 Metric)			
17	3	C45,C58,C71	SMT ceramic capacitor	68nF/50V/X7R	Size 0603 (1608 Metric)			
18	2	C75,C84	SMT ceramic capacitor	2.2uF/10V/X7R	Size 0603 (1608 Metric)			
19	6	C81,C91,C93,C95,C97,C99	SMT ceramic capacitor	33pF/50V/NP0	Size 0603 (1608 Metric)			
20	3	C82,C94,C98	SMT ceramic capacitor	100pF/50V/X7R	Size 0603 (1608 Metric)			
21	1	C104	THT Electrolytic Capacitor	390uF/450V	Diam. 30mm p. 10mm	Würth Elektronik	WE-861011485019 or Equivalent	
22	1	D1	Glass Passivated Bridge Rectifier	GBU1510	GBU-2	Panjit	GBU1510_TO_00601 or Equivalent	
23	5	D2,D3,D7,D8,D9	SMT Schottky Diode	BAT46J	SOD-323	STMicroelectronics	BAT46JFILM	
24	3	D4,D5,D6	SMT Diode	STTH1L06A	SMA	STMicroelectronics	STTH1L06A	
25	2	FB1,FB2	SMT Ferrite Bead	742792662	Size 0603 (1608 Metric)	Würth Elektronik	WE-742792662 or Equivalent	
26	1	F1	SMT Fuse	5A/277V slow	UMT250-SHURTER	Schurter	3403.0173.24 or Equivalent	
27	1	IC1	36 V, 1 A synchronous step-down converter in	DCP3601	SOT23-6L	STMicroelectronics	DCP3601CMR	
28	2	J1,J4	WR-TBL Series 311 - 5.08 mm	691311500103	3 pins, Pitch 5,08mm	Würth Elektronik	WE-691311500103 or Equivalent	
29	1	J2	THT Strip connector	STRIP 1x5	1x5 pins			
30	1	J3	THT Strip connector	STRIP 1x4	1x4 pins			
31	1	J5	.050 x .050 CL THROUGH HOLE TERMINAL ST	FTSH-107-01-L-D-K	2x7 pins	SAMTEC	FTSH-107-01-L-D-K or Equivalent	
32	1	J6	WR-TBL Series 311 - 5.08 mm	691311500102	2 pins, Pitch 5,08mm	Würth Elektronik	691311500102 or Equivalent	
33	1	K1	J100 Relay	J1001A512VDC.20	Dim. 10,28x18,29, h 15,49 mm	CIT Relay and Switch	J1001A512VDC.20 or equivalent	
34	2	LED1,LED3	SMT Red LED	RED	Size 0603 (1608 Metric)			
35	1	LED2	SMT Green LED	GREEN	Size 0603 (1608 Metric)			
36	1	L1	WE-FI Leaded Toroidal Line Choke	150uH	Dim. 13x26 mm, pitch 10 mm	Würth Elektronik	WE-7447055 or Equivalent	
37	1	L2	WE-PD HV SMT Power Inductor (High Voltage)	2.2mH	Size 1210	Würth Elektronik	WE-7687709222 or Equivalent	
38	1	L3	WE-LQS SMT Semi-Shielded Power Inductor	10uH	Size 4025	Würth Elektronik	WE-74404043100A or Equivalent	
39	1	NTC1	NTC Thermistor for Inrush current limiting	5RD15	Diam. 15mm, pitch 7.5mm	TDK	B5723750509M051 or Equivalent	
40	6	Net2,Net3,Net4,Net5,Net6,Net7	Net	N.M.				
41	1	Net8	Net	N.M.				
42	2	Q1,Q3	4-Pin DIP Phototransistor Optocouplers	FOD817AS	FOD817	ON Semiconductor	FOD817AS / D or Equivalent	
43	1	Q2	Low voltage fast-switching PNP power transis	2STR2160	SOT-23	STMicroelectronics	2STR2160	
44	3	Q4,Q5,Q6	60V, 1A fast-switching NPN power transistor	2STR1160	SOT-23	STMicroelectronics	2STR1160	
45	6	Q7,Q8,Q9,Q10,Q11,Q12	SMT PowerGaN transistor	SGT120R65AL	PowerFLAT 5x6 HV for Power GaN	STMicroelectronics	SGT120R65AL	
46	1	RT1	Chip NTC thermistor Temperature protection	10k	Size 0603 - JIS 1608 [EIA 0603]	EPCOS - TDK Electronics	NTCG163JF103HT1A or equivalent	
47	1	RV1	Disk Varistor Standard WE-VD	275V-1.2kA	Diam. 9 mm, pitch 5 mm	Würth Elektronik	WE-820572711 or equivalent	
48	1	R1,R38	SMT resistor	47k	Size 0603 (1608 Metric)			
49	10	R2,R18,R26,R27,R34,R70,R87,R102,R131,R132	SMT resistor	470R	Size 0603 (1608 Metric)			
50	12	R3,R4,R11,R12,R13,R19,R28,R30,R31,R104,R108,R121	SMT resistor	10k	Size 0603 (1608 Metric)			
51	13	R5,R7,R9,R39,R40,R52,R66,R71,R81,R85,R96,R100,R122	SMT resistor	0R	Size 0603 (1608 Metric)			
52	11	R6,R8,R10,R20,R23,R107,R110,R111,R115,R117,R126	SMT resistor	100R	Size 0603 (1608 Metric)			
53	3	R14,R15,R16	SMT resistor	1.8k	Size 0603 (1608 Metric)			

54	1	R17	SMT resistor	200R	Size 0603 (1608 Metric)		
55	2	R21,R45	SMT resistor	3.3k	Size 0603 (1608 Metric)		
56	7	R22,R61,R62,R76,R77,R91,R92	SMT resistor	33R	Size 0603 (1608 Metric)		
57	8	R24,R29,R41,R42,R44,R49,R50,R133	SMT resistor	1k	Size 0603 (1608 Metric)		
58	1	R25	SMT resistor	2k	Size 0603 (1608 Metric)		
59	8	R32,R33,R69,R72,R84,R86,R99,R101	SMT resistor	220k	Size 1206 (3216 Metric)		
60	7	R35,R106,R113,R116,R120,R125,R129	SMT resistor	3k	Size 0603 (1608 Metric)		
61	1	R36	SMT resistor	82k	Size 0603 (1608 Metric)		
62	1	R37	SMT resistor	9.1k	Size 0603 (1608 Metric)		
63	1	R43	SMT resistor	620R	Size 1206 (3216 Metric)		
64	6	R46,R47,R48,R56,R57,R58	SMT resistor	100k	Size 0805 (2012 Metric)		
65	2	R51,R54	SMT resistor	4.7k	Size 0603 (1608 Metric)		
66	1	R53	SMT resistor	86.6k	Size 0603 (1608 Metric)		
67	7	R55,R105,R109,R114,R118,R123,R127	SMT resistor	30k	Size 0603 (1608 Metric)		
68	6	R59,R65,R74,R80,R89,R95	SMT resistor	18R	Size 0603 (1608 Metric)		
69	6	R60,R63,R75,R78,R90,R93	SMT resistor	2R2	Size 0603 (1608 Metric)		
70	3	R64,R79,R94	SMT resistor	0R05	Size 2512 (6432 Metric)	Bourns Inc.	CRA2512-FZ-R050ELF or Equivalent
71	4	R67,R82,R97,R124	SMT resistor	N.M.	Size 0603 (1608 Metric)		
72	3	R68,R83,R98	SMT resistor	1.2k	Size 0805 (2012 Metric)		
73	3	R73,R88,R103	SMT resistor	3k	Size 0805 (2012 Metric)		
74	3	R112,R119,R128	SMT resistor	15k	Size 0603 (1608 Metric)		
75	1	R130	SMT resistor	2k	Size 0603 (1608 Metric)		
76	1	R134	SMT resistor	12k	Size 0603 (1608 Metric)		
77	26	TP6,TP12,TP15,TP16,TP18,TP21,TP22,TP23,TP24,TP28,TP35,TP36,TP37,TP	50 mils SMD PAD	TP-SMD-diam1_27mm	Copper pad		
78	1	TP68	TP for Probe	TP-diam1_27mm-Hole0.8	Diam. 1.27, Hole 0.8mm		
79	1	T1	WE-CMB Common Mode Power Line Choke	1mH	744823601-WURTH	Wurth Elektronik	WE-744823601 or Equivalent
80	2	U1,U4	Small signal diodes	BAV99LT1G	SOT-23	onsemi	BAV99LT1G
81	1	U2	SMT AC-DC Converter	VIPer013LS	SSOP10	STMicroelectronics	VIPer013LS/TR
82	1	U3	Low-power, dual-voltage comparators	LM293D	SO-8	STMicroelectronics	LM293D /T
83	3	U5,U6,U7	SMT GaN Half Bridge Driver	STDRIVEG611	GQFN 4x5x1mm 18L 0.5mm pitch	STMicroelectronics	STDRIVEG611
84	1	U8	STM32 Microcontroller	STM32G431RBT3	LQFP64	STMicroelectronics	STM32G431RBT3
	2	WR-TBL Series 3445 - 5.08 mm	WE-691344510003	3 pins, Pitch 5,08mm		WE-691344510003	
	1	WR-TBL Series 3445 - 5.08 mm	WE-691344510002	2 pins, Pitch 5,08mm		WE-691344510002	
	4		Spacer nylon hex M3, H=20mm	M3, H=20mm			R30-1612000 or Equivalent
	4		Screw nylon M3	M3			WE-97790603111 or Equivalent