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STMicroelectronics

All resistors are 1% tolerance unless otherwise indicated

All capacitors are X7R or COG dielectric unless otherwise indicated

Index	Quantity	Reference	Description	Value	Package	Manufacturer	Manufacturer's ordering code
1	3	CN1,CN2,CN3	Tab FASTON 250 Horizontal	N.M.	Pitch 5,08mm	(TE Connectivity)	(63951-1 or equivalent)
2	2	C1,C2	SMT ceramic capacitor	100nF/630V/X7R	Size 1210 (3225 Metric)		
3	1	C3	THT Electrolytic Capacitor	N.M.	Diam. 22 p. 10		
4	1	C4	Plastic Film Capacitor	N.M.	Pitch 22.5 mm, 15x27 mm	(Panasonic)	(ECWFE2J105J or equivalent)
5	1	C5	SMT ceramic capacitor	10uF/25V/X7R	Size 1206	WURTH ELEKTRONIK	885012208069 or equivalent
6	1	C6	SMT ceramic capacitor	220nF/50V/X7R	Size 0603	WURTH ELEKTRONIK	885012206125 or equivalent
7	2	C7,C11	SMT ceramic capacitor	100nF/25V/X7R	Size 0603	WURTH ELEKTRONIK	885012206071 or equivalent
8	4	C8,C19,C20,C22	SMT ceramic capacitor	100nF/25V/X7R	Size 0603	WURTH ELEKTRONIK	885012206071 or equivalent
9	2	C9,C10	SMT ceramic capacitor	1.5nF/50V/X7R	Size 0603	WURTH ELEKTRONIK	885012206084 or equivalent
10	4	C12,C13,C14,C24	SMT ceramic capacitor	10pF/50V/NP0	Size 0603	WURTH ELEKTRONIK	885012006051 or equivalent
11	1	C15	SMT ceramic capacitor	330pF/50V/X7R	Size 0603	WURTH ELEKTRONIK	885012206080 or equivalent
12	1	C16	SMT ceramic capacitor	22nF/25V/X7R	Size 0603	WURTH ELEKTRONIK	885012206067 or equivalent
13	2	C17,C18	SMT ceramic capacitor	1uF/10V/X7R	Size 0603	WURTH ELEKTRONIK	885012206026 or equivalent
14	2	C21,C23	SMT ceramic capacitor	1nF/50V/X7R	Size 0603	WURTH ELEKTRONIK	885012206083 or equivalent
15	1	D1	Turbo 2 ultrafast high voltage rectifier	N.M.	SMA	STMicroelectronics	N.M.
16	2	D2,D3	40V, 300mA Small signal Schottky Diode	BAT54J	SOD-323	STMicroelectronics	BAT54JFILM or equivalent
17	1	JP1	SMT jumper	OPEN	Soldering pads		
18	3	J1,J2,J3	Strip connector 3 pos, 2.54 mm	STRIP 1x3	1x3 pins	WURTH ELEKTRONIK	61300311121 or equivalent
19	1	J4	Strip connector 12 pos, 2.54 mm	STRIP 1x12	1x12 pins	WURTH ELEKTRONIK	61301211121 or equivalent
20	1	J5	Terminal block T.H. 2 positions, 5.08 mm	MORSV-508-2P_screw	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510002 or equivalent
21	1	J6	Strip connector 4 pos, 2.54 mm	N.M.	1x4 pins	(WURTH ELEKTRONIK)	(61300411121 or equivalent)
22	2	Q1,Q2	650 V, 75 mO, 15 A, e-mode PowerGaN transistor	SGT120R65AL	PowerFLAT 5x6 HV for Power GaN	STMicroelectronics	SGT120R65AL
23	1	R1	SMT resistor	N.M.	Size 0805		
24	2	R2,R9	SMT resistor	33R	Size 0603		
25	2	R3,R4	SMT resistor	47R	Size 0603		
26	1	R5	SMT resistor	0R025	Size 2512		
27	3	R6,R7,R8	SMT resistor	N.M.	Size 0805		
28	6	R10,R18,R19,R25,R28,R31	SMT resistor	0R	Size 0603		
29	1	R11	SMT resistor	18k	Size 0603		
30	2	R12,R15	SMT resistor	10k	Size 0603		
31	1	R13	SMT resistor	1k	Size 0603		
32	6	R14,R23,R26,R27,R29,R32	SMT resistor	N.M.	Size 0603		
33	1	R16	SMT resistor	33k	Size 0603		
34	1	R17	SMT resistor	1k	Size 0603		
35	1	R20	SMT resistor	205k	Size 0603		
36	2	R21,R34	SMT resistor	N.M.	Size 0603		
37	1	R22	SMT resistor	120k	Size 0603		
38	2	R24,R30	SMT resistor	47R	Size 0603		
39	1	R33	SMT resistor	47k	Size 0603		
40	16	TP1,TP3,TP4,TP5,TP6,TP8,TP10,TP12,TP14,TP15,TP16,TP17,TP19,TP22,TP23,TP25	TP for Probe	N.M.	Diam. 1.27, Hole 0.8mm		
41	6	TP2,TP7,TP11,TP13,TP18,TP24	Test point - PCB 1.016 mm diameter	TP-SMD-diam1_016mm	Copper pad		
42	1	TP9	50 mils SMD PAD	TP-SMD-diam1_27mm	Copper pad		
43	2	TR1,TR2	5 mm Square Surface Mount Miniature Trimmers Multi-Turn Cermet Sealed	1K	TSM4YJ	VISHAY	TSM4YJ102KB25 or equivalent
44	1	U1	High voltage, high speed half-bridge GaN gate driver	STDRIVEG611Q	QFN 4x5mm	STMicroelectronics	STDRIVEG611Q
45	1	U2	High input voltage, 85 mA LDO linear regulator	ST715MR	SOT23-5L	STMicroelectronics	ST715MR or equivalent
46	1	U3	SINGLE 2 INPUT POSITIVE EXCLUSIVE OR GATE	74LVC1G86Q	SOT23-5L (SOT25)	Diodes Incorporated	74LVC1G86QW5-7 or equivalent
47	1	U4	2-input single supply translating EXCLUSIVE-NOR gate	74LV1T87GV	SOT753 (SC-74A)	Nexperia	74LV1T87GV or equivalent