



Index	Quantity	Reference	Description	Value	Voltage	Power/ Current	Tolerance	Package	Manufacturer's ordering code / Orderable Part Number	Manufacturer	Additional Notes
1	5	C1,C2,C38,C39,C40	SMT ceramic capacitor	NM	16V			Size 0402			
2	7	C3,C19,C21,C23,C28,C34,C41	SMT ceramic capacitor	100nF	16V			Size 0402			
3	5	C4,C26, C35,C36,C37	SMT ceramic capacitor	1n	16V			Size 0402			
4	2	C5,C27	SMT ceramic capacitor	10n	16V			Size 0402			
5	2	C6,C17	SMT ceramic capacitor	1uF	100V			Size 0805			
6	1	C7	SMT ceramic capacitor	100n	100V			Size 0603			
7	1	C8	SMT ceramic capacitor	220nF	16V			Size 0402			
8	1	C9	SMT ceramic capacitor	4.7uF	16V			Size 0603			
9	5	C10,C11,C12,C20,C22	SMT ceramic capacitor	1uF	25V			Size 0603			
10	3	C13,C14,C15	SMT ceramic capacitor	82nF	16V			Size 0603			
11	1	C16	SMT ceramic capacitor	470nF	16V			Size 0402			
12	1	C18	SMT ceramic capacitor	2.2uF	16V			Size 0402			
13	1	C24	SMT ceramic capacitor	4.7u	100V			Size 1206			
14	1	C25	SMT ceramic capacitor	220n	100V			Size 0805			
15	3	C29,C30,C31	SMT ceramic capacitor	2.2nF	16V			Size 0402			
16	2	C32,C33	Through hole Aluminum Elect. Capacitor	220u	100V			D12.5_H20	ECA2AM221	Panasonic	
17	6	D1,D2,D3,D4,D12,D13	Small Signal Fast Switching Diode	1N4148WS				SOD-323F	1N4148WS-E3-08 / -E3-18 or equivalent	VISHAY	
18	6	D5,D6,D7,D8,D9,D10	Small Signal Schottky Diode	BAT30	30 V			SOD-523	BAT30KFILM	STMicroelectronics	
19	1	D11	SMD Precision Zener Diode	BZT585B12T				SOD523	BZT585B12T or equivalent	DIODES Incorporated	
20	5	J1,J2,J3,J5,J6		pad200hole118_11							
21	1	J4	Strip connector 5 poles, 2.54 mm	STRIP 1x5				1x5 pins			
22	1	J7	Connector header SMD 14POS 1.27MM	STDC14					FTSH-107-01-L-DV-K-A	Samtec	
23	1	J8	Strip connector 7x2 poles, 1.27 mm	STRIP 2x7				2x7 pins	62201421121	WURTH ELEKTRONIK	
24	1	L1	Inductor, Shielded, 47 uH, 580 mA, SMD	47uH				744031470-WURTH	744031470	WURTH ELEKTRONIK	
25	2	NTC1,NTC2	NTC Thermistor	10k				Size 0603	NTCS0603E3103FMT	Vishay	
26	1	Q1	P-channel -60 V, 0.13 Ohm, -3 A STripFET F6 Power MOSFET	STN3P6F6				SOT-223	STNP6F6 DMP6023LE-13	STMicroelectronics Diodes Incorporated	
27	1	Q2	N-channel 60 V, 7.5 Ohm MOSFET	2N7002				SOT-23	2N7002 or equivalent	Diodes Inc.	
28	2	R1,R43	SMT resistor	39k		1/16W	0.05	Size 0402			
29	4	R2,R36,R37,R38	SMT resistor	100k		1/16W	0.05	Size 0402			
30	1	R3	SMT resistor	22k		1/16W	0.05	Size 0402			
31	1	R4	SMT resistor	7.32k		1/16W	0.001	Size 0402			
32	3	R5,R6,R7	SMT resistor	3.3k		1/16W	0.05	Size 0402			
33	5	R8,R59,R64,R69,R71	SMT resistor	10k		1/16W	0.01	Size 0402			
34	6	R9,R11,R13,R15,R17,R19	SMT resistor	100		0.1 W	0.05	Size 0603			
35	6	R10,R12,R14,R16,R18,R20	SMT resistor	39		0.1 W	0.05	Size 0603			
36	3	R21,R22,R23	SMT resistor	0.01		3W	0.01	Size 2512	CRA2512-FZ-R010ELF	Bourns	
37	3	R24,R27,R30	SMT resistor	68k		1/16W	0.05	Size 0402			
38	3	R25,R28,R31	SMT resistor	4.3k		1/16W	0.05	Size 0402			
39	3	R26,R29,R32	SMT resistor	NM				Size 0402			
40	3	R33,R34,R35	SMT resistor	10R		0.1 W	0.05	Size 0603			
41	2	R39,R40	SMT resistor	150k		1/16W	0.05	Size 0402			
42	1	R41	SMT resistor	30k		1/16W	0.05	Size 0402			
43	1	R42	SMT resistor	100k		1/16W	0.05	Size 0603			
44	6	R44,R45,R46,R47,R48,R49	SMT resistor	1k		1/16W	0.01	Size 0402			
45	2	R51,R53	SMT resistor	910		1/16W	0.05	Size 0402			
46	1	R54	SMT resistor	91k		1/16W	0.05	Size 0402			
47	1	R55	SMT resistor	5.6k		1/16W	0.05	Size 0402			
48	3	R56,R61,R66	SMT resistor	20k		1/16W	0.01	Size 0402			
49	6	R57,R58,R62,R63,R67,R68	SMT resistor	1.4k		1/16W	0.001	Size 0402			
50	3	R60,R65,R70	SMT resistor	0R		1/16W	0.05	Size 0402			
51	2	SB1,SB2	Jumper	SOLDER_JUMPER1x3				OPEN			
52	6	TP1,TP2,TP3,TP4,TP5,TP6	Test point - Pad 1.5 mm diameter	TP-Pad diam1_5mm							
53	1	U1	Microcontroller Arm Cortex-M0+ MCU, 128Kb Flash, 36 Kb RAM, 64	STM32G071KBT3				LQFP32	STM32G071KBT3	STMicroelectronics	
54	1	U2	Three-phase gate driver	STDRIVE101				QFN4x4	STDRIVE101	STMicroelectronics	
55	6	U3,U4,U5,U6,U7,U8	N-channel 60 V, 1.2 mO typ., 120 A STripFET™ F7 Power MOSFET	STL220N6F7				PowerFLAT™ 5x6mm	STL220N6F7	STMicroelectronics	

