

# STEVAL-ISA023V1 BOM

Item	Part	Value	Description	Size	Assembly	Manufacturer	Order code	Version
1	R1	1M/5%	Resistor	1206	SMD	General		
2	R2	1M/5%	Resistor	1206	SMD	General		
3	R3	5k6/5%	Resistor	0805	SMD	General		
4	R4	5k1/5%	Resistor	0805	SMD	General		
5	R5	7k5/5%	Resistor	0805	SMD	General		
6	R6	220R/5%	Resistor	0805	SMD	General		Negative
7	R7	220R/5%	Resistor	0805	SMD	General		Positive
8	R8	0R	Resistor	1206	SMD	General		Positive
9	R9	0R	Resistor	0805	SMD	General		Negative
10	R10	10k/5%	Resistor	0805	SMD	General		
11	R11	15k/5%	Resistor	0805	SMD	General		
12	R12	15k/5%	Resistor	0805	SMD	General		
13	R13	150R	Resistor	1206	SMD	General		
14	R14	1k/5%	Resistor	0805	SMD	General		
15	RT1	15R	NTC resistor	D15 x 7.5	TH	Epcos	B57237S0150M000	
16	F1	2A/T	Fuse	5 x 20	TH	General		
17	C1	100nF/275VAC	X2 capacitor	18 x 6	TH	Epcos	B32922A210M	
18	C2	100nF/275VAC	X2 capacitor	18 x 6	TH	Epcos	B32922A210M	
19	C3	68µF/400V	Electrolytic capacitor	D18 x 7.5	TH	Panasonic	EEUED2G680	
20	C4	4.7nF/50V	Ceramic capacitor, X7R	0805	SMD	General		
21	C5	39nF/50V	Ceramic capacitor, X7R	0805	SMD	General		
22	C6	150nF/16V	Ceramic capacitor, X7R	0805	SMD	General		
23	C7	22µF/35V	Electrolytic capacitor	D5 x 7.5	TH	Jamicon	SKR220M1ED11	
24	C8	120pF/50V	Ceramic capacitor, X7R	0805	SMD	General		
25	C9	470µF/25V	Electrolytic capacitor	D8 x 3.5	TH	Rubycon	25ZL470M8X20	
26	C10	1000µF/25V	Electrolytic capacitor	D10 x 5	TH	Rubycon	25ZL1000M12.5X20	

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27	C11	1000µF/25V	Electrolytic capacitor	D10 x 5	TH	Rubycon	25ZL1000M12.5X20	
28	C12	100nF/50V	Ceramic capacitor, X7R	0805	SMD	General		
29	C13	470µF/25V	Electrolytic capacitor	D8 x 3.5	TH	Rubycon	25ZL470M8X20	
30	C14	33µF/35V	Electrolytic capacitor	D5 x 2	TH	Rubycon	35ZL33M5X11	
31	C15	100nF/50V	Ceramic capacitor, X7R	0805	SMD	General		
32	C16	2.2nF	Ceramic capacitor Y1	12 x 10 RM10	TH	Murata	DE1E3KX222MA5B	
33	C17	470nF/16V	Ceramic capacitor, X7R	0805	SMD	General		Positive
34	C18	100nF/50V	Ceramic capacitor, X7R	0805	SMD	General		Positive
35	L1	20mH/1A	CMC coil	24 x 19	TH	TDK	HF2430-203Y1R0-T01	
36	L2	3.3µH/3.8A	Inductor	D8.5 x 5	TH	TDK	TSL0808 - 3R3M3R8-PF	
37	L3	0.1µH/ 1.6A	Inductor	D4	TH	Fastron	SMCC-R10M	
38	D1	B250C1000SMD	Rectified bridge, 800V, 1A	DB-1S	SMD	General		
39	D2	STPS1150	Schottky diode, 150V, 1A	DO214AC	SMD	ST	STPS1150A	
40	D3	BAR18	Schottky diode, 80V, 70mA	SOT23	SMD	ST	BAR18	
41	D4	STTH1R06A	Ultrafast, 600V, 1A	DO214AC	SMD	ST	STTH1R06A	
42	D5	1.5KE150A	Transil	DO201	TH	ST	1.5KE150A	
43	D6	STPS1045D	Schottky diode, 45V, 10A	TO220AC	TH	ST	STPS1045D	Positive
44	D7	STPS1045D	Schottky diode, 45V, 10A	TO220AC	TH	ST	STPS1045D	Negative
44	D8	STPS2H100U	Schottky diode, 100V, 2A	SMB	SMD	ST	STPS2H100U	
45	D9	ZMM9.1V/2%	Zener diode	SOD80	SMD	General		
46	U1	VIPer53EDIP	PWW controller with MOSFET	DIP-8	TH	ST	VIPer53EDIP	
47	U2	PC817	Opto coupler	SO 4	SMD	General		

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48	U3	TL431	Voltage reference	TO 92	TH	ST	TL1431CZ/CZT/CZ-AP	
49	U4	L78L33	Linear regulator	TO92	TH	ST	L78L33CZ	Positive
50	Q1	BC807-40	NPN transistor	SOT23	SMD	ST	BC807-40	
51	T1	EER28	Transformer		TH	TDK	SRW28EC-X64V015	
52	H1		Heatsink 25 x 23 x16				GM code: V7142B	
	J1		Jumper					Positive
	J2		Jumper					Positive
	J3		Jumper					Negative
	J4		Jumper					Negative
	J5		Jumper					Positive
	J6		Jumper					Negative
	J7		Jumper					Positive
	J8		Jumper					Negative