

# STEVAL-ILL069V2

## BILL OF MATERIALS

Item	Quantity	Reference	Manufacturer	Part Number	descr	Package	Additional Notes
1	1	C1	Rubycon Corporation	25YXH220MEFC8X11.5	220u 25V - 105° 20%	D=8,H=11.5,LS=3.5	Electrolytic
2	2	C2,C4	Nichicon Corporation	UPW1J681MHD3	680u 63V - 105°C 20%	D=18,H=20, LS=7.5	Electrolytic
3	1	C5			220n 63V - 105°C	C1206	
4	1	C6	TDK Corporation	B32922C3224	220n 305Vac 10%	17x8 , LS=15	X2 - Polypropilene
5	1	C7			1n 1kV 20%	13x4 , LS=10	Y2 - Ceramic
6	1	C8			1n * 1kV 20%	13x4 , LS=10	Not Mounted, Y2 - Ceramic
7	1	C9			1n * 1kV 20%	13x4 , LS=10	Not Mounted, Y2 - Ceramic
8	1	C10	TDK Corporation	B32921C3104M000	100n 305Vac 10%	13x6 , LS=10	X2 - Polypropilene
9	1	C11			10p 100V 5%	C0805	
10	1	C12	AVX	1206AA221JAT1A	220p 1kV 5%	C1206	
11	1	C13			100n 100V 10%	C0805	
12	1	C14	TDK Corporation	B32921C3104M000	100n 305Vac 10%	13x6 , LS=10	X2 - Polypropilene
13	1	C15	Nichicon Corporation	UPW1V220MDD	47u 25V - 105°C	D=5,H=11,LS=2	Electrolytic THT
14	1	C16			3.3n 6.3V - 105° 10%	C0805	
15	1	C17			220n 100V 10%	C0805	
16	1	C18	TDK Corporation	B32560J6222K	2.2n * 400V 10%	10x2 , LS=7.5	Not Mounted, Film Capacitor
17	1	C19			47u 6.3V 10%	C1206	Ceramic X6S
18	1	C20			220p 100V	C0805	
19	1	D1	STMicroelectronics	STPS1H100A		SMA	
20	1	D2	STMicroelectronics	STTH2003CT	300V / 20A	TO220AB	
21	1	D3		2KBP08M	800V - 2A	KBPM	
22	1	D4	TaiwanSemi	P6KE350A	350V	DO15	
23	1	D5	STMicroelectronics	STTH108	800V / 1A	SMA	
24	3	D6,D7,D9		1N4148WS	100Vr - 0.2AIf	SOD-323	
25	1	D8	NXP	BZV55-C16,115	18V - 500mW	SOD-80C	
26	1	D11	ON Semiconductor	1SMA5942BT3G	51V - 1.3W	SMA	
27	1	D12	NXP	BZX384-C33	33V - 0.3W	SOD-323	
28	1	F1	Wickmann	5590000000	FUSE HOLDER		Fuse Holder
	1		Wickmann	3821200042	FUSE-1A 250Vac		Fit on fuse holder
29	1	HS2			21°C/W		Custom Part: check mech draw
30	1	J1	Weidmuller	PM 5.08/2/90 3.5 SW - 1760510000	AC IN	2 pin - spacing 5.08 mm	
31	1	J2	Weidmuller	PM 5.08/3/90 3.5 - 1760500000	PowerOut	3 pin - spacing 5.08 mm	
32	1	Q1	STMicroelectronics	STF10LN80K5		TO220	
33	1	RV1	TDK Corporation	B72210S0301K101	S10 K300 275Vac		THT
34	1	R1			10k	R0805	
35	1	R2			1k	R0805	
36	1	R3			22k * 0.33W 5%	TH 1/4W	Not Mounted, THT
37	1	R4			15 5%	R0805	
38	2	R5,R6			47k 1%	R0805	
39	1	R8			220 1%	R0805	
40	1	R9			22 1%	R0805	
41	2	R10,R11			0R62 1%	R1210	
42	1	R12			10k 1%	R0603	

43	1	R13			1k* 1%	R0805	Not Mounted
43bis	1	R17			1k 1%	R0805	
44	1	R14			18.2k 1%	R0805	
45	1	R15			10k * 1W 1%	Footprint shared with D6	Not Mounted, THT
46	1	R19			1k 1%	R1206	
47	1	R20			10Meg 5%	R0805	
48	1	TP1			VCC	Pad Circolare 1.5mm	
49	1	TP2			VFB	Pad Circolare 1.5mm	
50	1	TP3			VCS	Pad Circolare 1.5mm	
51	1	TP4			VTOFF	Pad Circolare 1.5mm	
52	1	TP5			VCTRL	Pad Circolare 1.5mm	
53	1	TP6			VZCD	Pad Circolare 1.5mm	
54	1	TP7			Vrect	Pad Circolare 1.5mm	
55	1	TP8			VGD	Pad Circolare 1.5mm	
56	1	TP9			GND_PRI	Pad Circolare 1.5mm	
57	1	TP10			GND_SEC	Pad Circolare 1.5mm	
58	1	TP11			V_SAUX	Pad Circolare 1.5mm	
59	1	TP12			V_OUT	Pad Circolare 1.5mm	
60	1	T1	Würth	750315710	35W - EV25	EV25	
			Itacoil	TSLEV2539	35W - EV25	EV25	Alternate part for T1
			Magnetics	1939.0084	35W -EV25_9pin	EV25_9pin	Alternate part for T1
61	1	T2	TDK Corporation	B82731T-2451A	47mH 0.45A		
62	1	U1	STMicroelectronics	HVLED001A		SSOP10	
63	1	Z1			JUMPER - 600mils	THT - L=15mm	100V - Insulated - AWG22
64	2	Z2, Z3			JUMPER - 800mils	THT - L=20.5mm	100V - Insulated - AWG22