

PROJECT NAME: STEVAL-ILL077V1 - MotherBoard

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	2	C1,C21	10uF	16V	X7R		1206		
2	3	C2,C18,C25	10uF	35V	Aluminium capacitor			NIPPON CHEMI-CON	EMVA350ADA100MD55G
3	1	C3	4,7uF	10V	X5R		0805		
4	1	C7	10nF	50V	X7R		0805		
5	2	C8,C9	47pF	50V	COG		0805		
6	9	C4,C5,C6,C10,C11,C12,C13,C14,C19	100nF	50V	X7R		0805		
7	1	C16	33uF	100V	Aluminium capacitor			PANASONIC	EEE-2AA330P
8	2	C15,C22	2,2uF	100V	X7R		1210		
9	1	C23	22nF	50V	X7R		0805		
10	1	C24	3,3nF	50V	X7R		0805		
11	1	C20	100nF	50V	X7R		0805		
12	1	C17	220nF	50V	X7R		0805		
13	5	D1,D2,D3,D14,D15			Led Green		0603	OSRAM	LT Q39G-Q1S2-25-1
14	1	D10		200V,0.5V	Bridge rectifier		TO269	VISHAY	MB2S-E3
15	1	D11	BZX84C8V2	8.2V,300mW	Zener diode		SOT23		BZX84C8V2
16	1	D12	SMBJ24CA-TR	24V,600W	TVS single diode bidir		SMB	ST	SMBJ24CA-TR
17	2	D13,D16	1N4148	100V,150mA	Rectifier diode		SOD123	DIODES ZETEX	1N4148W-7-F
18	1	D17	SMBJ48A	48V,600W	Unidir TVS single diode		SMB	ST	SMBJ48A
19	1	D18	STPS1H100A	100V,1A	Schottky diode		SMA	ST	STPS1H100A
20	8	JMP1,JMP2,JMP10,JMP11,JMP14,JMP15,JMP16,JMP17	CON 2poli		Male Strip pitch 2.54mm, 2 poles		2PIN-P254		
21	8	JP1,JP2,JP10,JP11,JP14,JP15,JP16,JP17	JUMPER 2poli		Female Strip pitch 2.54mm, 2 poles		2PIN-P254		
22	9	JMP3,JMP4,JMP5,JMP6,JMP7,JMP8,JMP9,JMP12,JMP13	CON 3poli		Male Strip pitch 2.54mm, 3 poles		3PIN-P254		
23	9	JP3,JP4,JP5,JP6,JP7,JP8,JP9,JP12,JP13	JUMPER 2poli		Female Strip pitch 2.54mm, 2 poles		2PIN-P254		
24	2	J1,J3	CON11		Female Strip pitch 2.54mm, 11 poles		11PIN-P254	SAMTEC	SSQ-111-01-F-S
25	1	J2	CON10		Female Strip pitch 2.54mm, 10 poles		10PIN-P254	SAMTEC	SSQ-110-01-F-S
26	4	J4,J5,J6,J7	1935776		2 way 5mm pitch low profile terminal block			PHOENIX CONTACT	1935776
27	1	J8	10104110-0001LF		Connector Micro USB 2.0 , female SMT			FCI	10104110-0001LF
28	1	J9	PM 5.08/3/90 3.5 SW		3 way 5,08mm pitch low profile terminal block			WEIDMULLER	PM 5.08/3/90 3.5 SW
29	1	J10	CGF029M5		Female connector, 2 pole,pitch 5,08mm.			SAURO	CGF029M5
30	1	L1	WE-CBF	120ohm,500mA	Ferrite bead		0603	WURTH ELEKTRONIK	74279262
31	1	L2	100uH	550mA	SMD inductor		6823	WURTH ELEKTRONIK	744062101
32	2	OPT1,OPT2	SFH6156 2T		Optocoupler Transistor Output 1-CH , 5KV			VISHAY	SFH6156-2T
33	2	OPT3,OPT4	ACPL-021L		Digital CMOS Optocoupler		SO8	AVAGO TECHNOLOGY	ACPL-021L-000E
34	1	P1	B3S-1000		smd-switch			OMRON	B3S-1000
35	1	PTC1	MF-USMF020-2		PTC fuse resettable SMD 1210 400mA		1210	BOURNS	MF-USMF020-2
36	2	Q1,Q2	BC857CW	45V,100mA	BJT PNP		SOT23		BC857CW
37	1	Q3	STN1HNK60	600V,400mA	MOSFET N-ch SuperMESH		SOT223	ST	STN1HNK60
38	11	R1,R2,R6,R14,R15,R23,R25,R30,R31,R32,R33	10K			1%	0805		
39	1	R7	47K			1%	0805		
40	3	R26,R27,R35	470			1%	0805		
41	5	R3,R4,R5,R29,R39	1K			1%	0805		
42	2	R16,R43	4K7			1%	0805		
43	1	R17	820			1%	0805		
44	2	R18,R28	39K			1%	0805		
45	1	R19	10			1%	2010		
46	1	R20	51K			1%	0805		
47	2	R21,R24	30K			1%	0805		
48	1	R22	1K5			1%	0805		
49	1	R34	1K			1%	1206		
50	1	R44	18K			1%	0805		
51	1	R45	75K			1%	0805		
52	1	R36	100K			1%	0805		
53	3	R37,R38,R47	0			1%	0805		
54	1	R46	330			1%	0805		
55	1	R42	100			1%	0805		
56	1	R41	1K			1%	0805		
57	1	R40	1K6			1%	0805		
58	1	R48	3K3			1%	0805		
59	1	U1	FT232RL		Transceiver USB/UART 232		SSOP28	FTDI	FT232RL
60	1	U2	L7987L		Step-down switching regulator		HTSSOP16	ST	L7987L
61	1	U3	LM317		Linear voltage regulator		DPAK	ST	LM317MDT-TR
62	1	DIST1-4			Distanziatore			Richco	

PROJECT NAME: STEVAL-ILL077V1 - DaughterBoard

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	5	C1,C6,C12,C18,C25	1uF	25V	X7R		0603		
2	3	C14,C20,C26	1uF	100V	X7R		1206		
3	3	C13,C19,C24	4,7uF	100V	X7R		1210	KEMET	C1210C475M1R2C7186
4	5	C2,C3,C34,C35,C36	10nF	16V	X7R		0603		
5	6	C4,C5,C29,C32,C33,C40	100nF	25V	X7R		0603		
6	3	C7,C8,C9	470nF	25V	X7R		0603		
7	3	C10,C16,C22	82pF	100V	COG		0603		
8	3	C37,C38,C39	220pF	25V	X7R		0603		
9	6	C11,C17,C23,C15,C21,C27	470pF	25V	X7R		0603		
10	1	C28	1uF	25V	X7R		1206		
11	1	D1	LED GREEN				0603	OSRAM	LT Q39G-Q1S2-25-1
12	1	D2	LED RED				0603	OSRAM	LS Q976
13	3	D7,D10,D13	STPS1H100A	1A,100V	Schottky diode		SMA	ST	STPS1H100A
14	3	D8,D11,D14	BZX84C3V3	3.3V,300mW	Zener diode		SOT23		BZX84C3V3
15	3	D9,D12,D15	STPS0560Z	0.5A,60V	Schottky diode		SOD123	ST	STPS0560Z
16	1	J1	UART I/F - TTL		Male Strip pitch 2.54mm, 3 poles		3PIN-P254		
17	1	J2	SWIM I/F		Male Strip pitch 2.54mm, 4 poles		4PIN-P254		
18	1	J3	CON11		Male Strip pitch 2.54mm, 11 poles		11PIN-P254	SAMTEC	DW-11-08-T-S-200
19	1	J4	CON10		Male Strip pitch 2.54mm, 10 poles		10PIN-P254	SAMTEC	DW-10-08-T-S-200
20	4	J5,J6,J7,J8	CON 2poli		Male Strip pitch 2.54mm, 2 poles		2PIN-P254		
21	4	JMP5,JMP6,JMP7,JMP8	JUMPER 2poli		Female jumper pitch 2.54mm, 2 poles		2PIN-P254		
22	1	L1	WE-CBF	120ohm,500mA	Ferrite bead		0603	WURTH ELEKTRONIK	74279262
23	3	L2,L3,L4	470uH	1.4A	Power inductor shielded	10%		COILCRAFT	MSS1210-474KEB
24	3	Q1,Q2,Q3	STL4N10F7	100V,4.5A	Mosfet N channel		PowerFlat 3.3x3.3	ST	STL4N10F7
25	2	R2,R3	1K	100mW		1%	0603		
26	6	R6,R19,R52,R53,R54,R55	0R	100mW		1%	0603		
27	8	R7,R8,R9,R16,R17,R23,R30,R37	100	100mW		1%	0603		
28	3	R11,R14,R18	12K	100mW		1%	0603		
29	5	R12,R13,R20,R27,R34	2K2	100mW		1%	0603		
30	6	R21,R22,R28,R29,R35,R36	10R	100mW		1%	0603		
31	6	R25,R26,R32,R33,R39,R40	3R	500mW		1%	1210		
32	10	R10,R15,R41,R45,R46,R47,R48,R49,R50,R51	10K	100mW		1%	0603		
33	1	R42	470k	100mW		1%	0603		
34	1	R43	150k	100mW		1%	0603		
35	2	R44	24k	100mW		1%	0603		
36	3	R24,R31,R38	330	100mW		1%	0603		
37	6	TP1,TP2,TP3,TP4,TP5,TP6	TP				TP-D50		
38	1	U1	STNRG388A				TSSOP38	ST	STNRG388A
39	1	U5	LK112M33TR	3.3V, 150mA	Linear regulator		SOT23-5L	ST	LK112M33TR
40	3	U2,U3,U4	PM8851D		Single channel low side gate driver		SOT23-6	ST	PM8851D