

## PROJECT NAME: STEVAL-ILL075V1

## 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	3	C1 C8 C24	10UF		CAP CER 10µF 10V X7R 0805		0805	MURATA	GRM21BR71A106KE51L
2	11	C2 C4 C7 C10 C13 C17 C19 C20 C21 C22 C23	100NF		CAP CER 100nF 50V X7R 0603		0603		
3	4	C3 C9 C11 C12	10NF		CAP CER 10nF 50V X7R 0603		0603		
4	2	C5 C6	47PF		CAP CER 47pF 25V X5R 0603		0603		
5	1	C14	1UF		CAP CER 1µF 25V X7R 0603		0603		
7	1	C25	100NF		CAP CER 100nF 50V +/-5% 1206		1206	TDK	CGA5L2C0G1H104J160AA
8	1	D1	MMSZ4689		ZENER VOLTAGE REGULATOR 5.1V 0.5W SOD123		SOD-123	ON SEMICONDUCTOR	MMSZ4689T1G
9	1	D2	YELLOW		LED Yellow - 0805		LED-0805	AVAGO	HSMY-C170
10	1	D3	STTH1L06A		Ultrafast 600V TURBO 2 ULTRAFAST HIGH VOLTAGE RECTIFIER		SMA	STMICROELECTRONICS	STTH1L06A
11	1	D4	GREEN		LED Green - 0805		LED-0805	AVAGO	HSMG-C170
12	1	D5	RED		LED Red - 0805		LED-0805	Avago	HSMH-C170
14	1	J1	UX60SC-MB-5ST		CONN Mini USB2.0 SMT		UX60SC-MB-5ST	HIROSE	UX60SC-MB-5ST
15	1	J2	CLOSE 1-2		JUMP254P-M-3		22-28-4033	MOLEX	22-28-4033
16	1	J3	CON-2x1		Cage Clamp connector, 2 pin		233-502	WAGO	233-502
17	7	J4 J7 J8 J9 J11 J14 J15	CON-1x4		Through-hole-1x4-Pin height 10.92 Body 5.8mm - pitch 2.54mm		1x4 - pitch 2.54	SAMTEC	TSW-104-07-L-S
18	2	J6 J10	CON-1x11		Through-hole-1x11-Pin height 10.92 Body 5.8mm - pitch 2.54mm		1x11 - pitch 2.54	SAMTEC	TSW-110-07-L-S
19	1	J12	CON-1x6		Through-hole-1x6-Pin height 10.92 Body 5.8mm - pitch 2.54mm		1x6 - pitch 2.54	SAMTEC	TSW-104-07-L-S
20	1	J13	JUMPER2		STRIP254P-M-2		22-28-4023	MOLEX	22-28-4023
21	4	J16 J17 J18 J19	CON-1x3		Through-hole-1x3-Pin height 10.92 Body 5.8mm - pitch 2.54mm		1x3 - pitch 2.54	SAMTEC	TSW-103-07-L-S
22	1	J20	CON-1x4		Conn 4 way, 1.27mm used by Raisonance Debugger, SIDE access		ERNI_214012	ERNI	214012
23	2	L1 L2	120R		FERRITE BEAD,120 OHM/500mA,0603,WE-CBF series		0603	WURTH	74279262
26	13	R2 R3 R13 R14 R15 R17 R18 R19 R20 R21 R24 R25 R26	0R		RES 0 OHM 5% 1/10W 0603		0603		
27	3	R4 R27 R28	1K		RES 1K OHM 5% 1/10W 0603 SMD		0603		
28	2	R10 R11	330R		330R OHM 5% 1/10W		0603		
29	2	R12 R16	10K		RES 10K OHM 5% 1/10W 0603 SMD		0603		
30	2	R22 R29	33K		33K OHM 5% 1/10W		0603		
31	2	R23 R30	10K		Trimmer 10KOhm MultiTurn / size 9.6x5x10mm / Leaded / Top Adjustment		LEADED	MURATA	PV36W103C01B00

32	1	SW1	B3S-1000P		SMT Tactile Switch		B3S-1000P	OMRON	B3S-1000P
34	1	U1	FT232R		Uart over USB bridge, SSOP28		SSOP-28	FTDI	FT232R
35	1	U2	STLUX385A		DIGITAL CONTROLLER		TSSOP38_0_5mm	STMICROELECTRONICS	STLUX385A
36	1	U3	L6395D		High-voltage high and low side driver 600V SO-8		SO-8	STMICROELECTRONICS	L6395D
37	2	U4 U5	PM8841		High-voltage high and low side driver 600V SOT23-5		SOT23-5	STMICROELECTRONICS	PM8841D
38	1	U6	SO-8		SO-8 PCF footprint provision		SO-8		
39	2	U7 U8	SOT23-6		SOT23-6 PCF footprint provision		SOT23-6		

**Parts below are MECHANICAL Parts**

	15	TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15	TP		Point Test TPTH-1MM black			KEYSTONE	534-5001
	4	M13 M14 M15 M16	BUMPER		Hemispherical Bumper, 11.1mm diameter, Black			SJ-5003 (BLACK)	3M

**Parts below are NOT MOUNTED**

	2	C15 C16	12PF		CAP CER 12pF 50V COG 0603		0603		
	1	ZQ1	16MHz		XTAL 16 MHz HC49- 4H 18pF 30ppm leads		CRYSTAL_HC49_L EAD	Euroquartz	16.000MHz HC49/4H/30/50/-40+85/18pF/ATF
	6	R1 R5 R6 R7 R8 R9	NP		RES NP 0603		0603		