

STEVAL-ILL035V1 Bill-Of-Material

Item	Reference	Description	Package	Value	Part number	Manufacturer	Supplier
1	CON1	20 pins male header SIL 90°			5-826631-0	Tyco Electronics	RS: 483-8691
2	CON2	Mini USB connector			6510-0516121	Würth Elektronik	
3	CON3	10x2 female connector 90°			89883-410LF	FCI	RS: 252-248
4	CON4	5x2 female connector			6233-10235321	Würth Elektronik	
5	C1,C2	Ceramic, 50 V, X7R, 20%	SMD 1206	4u7	GJ831CR71H475KA12L	Murata	
6	C3	Aluminium, 32V, 8mm		68u	32SEPF68M	Sanyo	
7	C4,C5	Ceramic, 50 V, X7R, 20%	SMD 1206	4u7	GJ831CR71H475KA12L	Murata	
8	C7,C8	Tantalum, 50V		4u7	594D475X9050C2T	Vishay	RS: 684-4685
	C6,C9			NC			
9	C18	Ceramic, 25V , X5R, 5%	SMD 0603	100p			
10	C11,C12,C13,C14, C38			1u			
11	C10,C21,C22,C24,C25, C26,C28,C29,C32, C33, C34,C35,C36,C37			100n			
12	C15,C16,C19			NC			
13	C17			4n7			
14	C20			220n			
15	C23,C27	Tantalum, 10V	SMA-1206	10u	T491A106K010AT	Kemet	RS:538-2278
16	C30,C31	Ceramic, 25V, NP0, 5%	SMD 0603	22p			
17	D1	Schottky, 60V, 1A	SMA	STPS1L60A	STPS1L60A	STMicroelectronics	
18	D2			STPS1L60A			
19	D3-Fault	Red LED	SMD 0805		KP-2012SRC-PRV	Kingbright	RS: 466-3813
20	D4-VUSB	Blue LED			KP-2012PBC-A		RS: 466-3784
21	D5-Busy	Red LED			KP-2012SRC-PRV		RS: 466-3813
22	D6-Link	Yellow LED			KP-2012SYC		RS: 466-3835
23	D7-Temp	Red LED					
24	D8-Open				KP-2012SRC-PRV		RS: 466-3813
25	D9-Short						
26	F1	Fuse	SMD 1206	200mA	0466.200NR	Littelfuse	RS: 541-3681
27	J1,J2,J3,J4,J5,J6,J7, J8,J9,J10,J11,J12	Test point	hole 1.2mm				Distrelec: 450271
28	L1	custom_7x7	7x7mm	10u	PCMB062D-100MS-11	Cyntec CO	
29	L2	Ferrite bead, 300Ω, 3A	SMD 0805	0R	7427-9203130	Würth Elektronik	
30	PB1	Pushbutton			430453031836		
31	PB2						
32	PB3						
33	PB4						
34	Q1	Power MOSFET	SO8	STS5NF60	STS5NF60	STMicroelectronics	

35	R1	Resistor, 1%, 0.125W	SMD 0603	120k			
36	R2			3k3			
37	R3			0R			
38	R4	Sensing resistor	SMD 1206	R050	RLT1632-4-R050-FNH-11	Cyntec CO	
39	R5	Resistor, 1%, 0.125W	SMD 0603	1R			
40	R6			220k			
41	R7,R8,R9,R10,R11			47k			
42	R16			30k			
43	R12,R21,R22,R23,R24, R25,R26			1k			
44	R13			68k			
45	R14			100k			
46	R15			60k			
47	R17			27k			
48	R18			680k			
49	R19			120k			
50	R27,R28,R29			100R			
51	R20			10k			
52	R32,R33			100k			
53	R30			330k			
54	R31			22k			
55	SW1			jumper selector			
56	SW2		tin-drop 3+1				
57	SW3		tin-drop 3				
58	SW4		tin-drop 2				
59	SW5		tin-drop 3				
60	SW6						
61	SW7						
62	TP1,TP2,TP3,TP4,TP5, TP6,TP7,TP8,TP9,TP10, TP11,TP12,TP13,TP14, TP15,TP16,TP17,TP18, TP19,TP20,TP21,TP22, TP23,TP24,TP25,TP26, TP27,TP28,TP29,TP30, TP31,TP32	Test point (white)	hole 1mm		200-202	RS	RS: 262-2040
63	U1	LED driver	VFQFPN7x7_48	LED7708	LED7708	STMicroelectronics	
64	U2	3V3 Linear regulator	SOT-23	LK11233	LK112M33TR		RS: 686-9013
65	U3	USB protector	SOTT-123-6L	USBUF02W6	USBUF02W6		RS: 250-656
66	U4	Microcontroller	LQFP-48	STM32F103C6T6A	STM32F103C6T6A		
67	Y1	Crystal resonator	FQ7050B	8MHz	FQ7050B-8.000	FOX	RS: 648-0115