

# STEVAL-ILL049V1

Item	Reference	Description	Package	Value	Part number	Manufacturer	Supplier		
1	C1,C2,C3,C4	Ceramic, 50 V, X7R, 10%	SMD1210	10u	GRM32ER71H106KA12L	Murata			
2	C5	Ceramic, 50 V, X7R, 10%	SMD1206	4u7	GJ831CR71H475KA12L				
3	C6,C7	Ceramic, 50V , X7R, 10%	SMD 0805	1u	GRM21BR71H105KA12L				
4	C8,C9	Ceramic, 25V , X7R, 10%	SMD 0603	1u	GRM188R71E105KA12L				
5	C10	Ceramic, 25V, X7R, 5%		47n	GCM188R71E103JA37				
6	C11	Ceramic, 50V, C0G, 5%		100p	GRM1885C1H101JA01				
7	C12	Ceramic, 6.3V, X5R, 10%	SMD 0805	10u	GRM21BR60J106KE19L				
8	C13	Ceramic, 25V , X7R, 10%		N.M.					
9	D1	Schottky, 60V, 2A	SMA		STPS2L60A	ST	ST		
10	D2	Schottky, 70V, 70mA	SOD323		BAS70J	ST	RS: 714-0486		
11	D3	Zener 4.7V1 400mW	SOD123		BZT52C4V7S	Zetex	RS: 751-3786		
12	D4	Schottky, 30V, 300mA	SOD323		BAT54J	ST	RS: 497-6557		
13	D5	Red LED	SMD 0603		LS Q976	Osram Opto	RS: 654-5420		
14	J1	4 pins female header	SIL4		215297-4	TE connectivity	RS: 495-8543		
15	J2,J3,J4,J5,J6,J7	Faston terminal	hole 1.2mm				Distrelec: 450271		
16	JP1,JP2,JP5	jumper selector	SIL3	strip3 male					
17	JP3,JP4,JP6	jumper	SIL2	strip2 male					
18	L1	custom	12x12mm	47u	MSD1278-473	Coilcraft			
19	Q1	NMOS 60V 5A	SO8		STS5NF60L	ST	ST		
20	Q2	NMOS 60V 2.5A	SOT23		IRLML0060TRPBF	IR	RS: 725-9341		
21	Q3	Photo-transistor	SMD 0805		SFH3710-3/4	Osram Opto	RS: 654-8918		
22	R1	Resistor, 1%, 0.125W	SMD 0603	220k					
23	R2			6k8					
24	R3	Sensing resistor	SMD 1206	1R5	ERJ8BQF1R5V	Panasonic	RS: 721-5965		
25	R4			2R0	ERJ8BQF2R0V		RS: 721-5971		
26	R5	Resistor, 1%, 0.125W	SMD 0603	3R3					
27	R6	Sensing resistor 1W	SMD 2010	R100	ERJB2CFR10V	Panasonic	RS: 573-117		
28	R7	Resistor, 1%, 0.125W	SMD 0603	1k8					
29	R8			5R6					
30	R9			82k					
31	R10			8k2					
32	R11			16k					
33	R12			N.M.					
34	R13			1M					
35	R14			Resistor, 1%, 0.125W	SMD 0603	560R			
36	R15	470k							
37	R16	1k							
38	R17,R18	SMD 0805	560R						
39	R19		N.M.						
40	TP1,TP2,TP3,TP4	Test point (white)	hole 1mm		200-201	RS	RS: 262-2040		
41	U1	LED driver	HTSSOP-16	LED6001	LED6001	ST	ST		

## STEVAL-ILL049V2

Item	Reference	Description	Package	Value	Part number	Manufacturer	Supplier
1	D1,D2,D3,D4 D5,D6,D7,D8,D9	OSLON Power LED	custom		LUW H9QP	OSRAM Opto	
2	RT1	NTC	SMD 0603	47k	NCP18WB473J03RB	Murata	
3	J1	strip male, 90°	SIL4		5-826631-0	TE connectivity	RS: 483-8691
4	JP1,JP2	tin-drop jumper					