

STEVAL-ILL014V1 Bill of materials (BOM)

Qty	Ref.	Description	Part number	Manufacturer	Footprint
1	C1	22 nF ± 10%, X7R, 16 V	GRM188R71C223KA01	Murata	0603
1	C _{SLOPE1}	1 nF ± 10%, X7R, 16 V	GRM155R71C102KA01	Murata	0805
1	C3	1 μF ± 10%, X7R, 50 V	GRM21BR71H105KA12	Murata	0805
4	C _{SLOPE2} , C7,C8,C9	100 nF ± 10%, X7R, 16 V	GRM219R71C104KA01	Murata	0805
1	C _{bypass}	0.1 μF ± 10%, X7R, 50 V	GRM21BR71H104KA01	Murata	0805
1	C6	0.33 μF ± 10%, X7R, 16 V	GRM21BR71C334KA01	Murata	0805
1	D1	Disc LED	LH R974		
1	D3	White LED	LXHLPW09 B	Lumileds	
1	D4	Schottky diode	BAT46ZFILM	STMicroelectronics	SOD-123
1	J1	CON4			
2	J2,J4	CON3			
1	J3	CON2			
1	J5	JUMPER			
3	R4,R7	10 kΩ 1%, 1/16 W			0805
1	Rf	100 Ω 1%, 1/16 W			0805
1	R _{sense}	0.33 Ω ± 1%, 1/4 W			0805
2	R2,R1	18 kΩ ± 1%, 1/4 W			0805
1	R3	6.8 kΩ ± 1%, 1/4 W			0805
2	R5	1.8 kΩ ± 1%, 1/4 W			0805
1	R6	330 ± 1%, 1/4 W			0805
1	R8	Pot 1MEG			-
1	R9	Pot 10 k			-
1	R10	220 kΩ ± 1%, 1/4 W			0805
1	R13	180 ± 1%, 1/4 W			0805
1	U1	Current control	STCS1APUR	STMicroelectronics	QFN 3X3-8L
1	U2	Comparator	TS3702IPT	STMicroelectronics	SOG.65M/8/ WG8.20/L3.17
1	U3	Voltage regulator	L78L05ABUTR	STMicroelectronics	SOT89