

## PROJECT NAME: STEVAL-ILL072V1

## 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	1	C1	4u7	50V	Ceramic X7R	±10%	SMD 1206	Panasonic	GCM31CC71H475KA03
2	1	C2	47u	50V	Aluminum		D-size	Murata	EEHZA1V470P
3	6	C3,C4,C5,C6 C7,C9	4u7	50V	Ceramic X7R	±10%	SMD 1210	Murata	GCM32ER71H475KA40
4	1	C8	68u	50V	Aluminum		F-size	Panasonic	EEHZA1H680P
5	2	C10,C15	470n	50V	Ceramic X7R	±10%	SMD 0805	Murata	GCM21BR71H474KA40
6	3	C11,C12,C16	1u	25V	Ceramic X7R	±5%	SMD 0603	Murata	GCM188R71E105KA64
7	1	C13	3n3	50V	Ceramic C0G	±5%	SMD 0603	Murata	GCM1885C1H332JA16
8	1	C14	100p	50V	Ceramic C0G	±5%	SMD 0603	Murata	GCM1885C1H101JA16
9	1	C17	470p	100V	Ceramic C0G	±5%	SMD 0805	Murata	GCM2165C2A471JA16
10	3	C18,C19,C20	1n	100V	Ceramic C0G	±5%	SMD 0805	Murata	GCM2165C1H102JA16
11	1	D1	STPS5L60SY	60V, 5A	Schottky		SMC	STMicroelectronics	STPS5L60SY
12	1	D2	BZT52C4V7	4.7V, 0.4W	Zener		SOD-123	Fairchild	MMSZ5230B
13	1	D3	RED LED	20mA	LED		SMD 0805	ANY	
14	1	JP1	7mm jumper header				SIL-2	ANY	
15	1	JP2	7mm jumper header				SIL-3	ANY	
16	10	J1,J2,J3,J4,J5,J6 J7,J8,J9,J10	Faston connector				hole 1.2mm		
17	1	J11	pin header				SIL-2	ANY	
18	1	L1	2.2u		Ferrite Inductor			Coilcraft	XAL7030-222
19	1	L2	15u		Ferrite Inductor			Coilcraft	XAL1010-153
20	2	L3, L4	120R	3A	Ferrite choke		SMD 0805	Murata	BLM21PG121SZ1
21	1	Q1	STD20NF06L	60V, 20A	N-MOSFET		DPAK	STMicroelectronics	STD20NF06L
22	1	Q2	STS5NF60L	60V, 5A	N-MOSFET		SO-8	STMicroelectronics	STS5NF60L
23	1	R1	220k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
24	1	R2	6k8	0.125W	Chip resistor	±1%	SMD 0603	ANY	
25	1	R3	0R30	1W	Chip resistor	±1%	SMD 2010	Panasonic	ERJ-B1BFR30U
26	1	R4	1R	0.125W	Chip resistor	±1%	SMD 0603	ANY	
27	1	R5	0R056	2W	Chip resistor	±1%	SMD 1020	Panasonic	ERJ-C1CFR056U
28	1	R6	1k3	0.125W	Chip resistor	±1%	SMD 0603	ANY	
29	1	R7	5R6	0.125W	Chip resistor	±1%	SMD 0603	ANY	
30	1	R8	100k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
31	1	R9	680R	0.125W	Chip resistor	±1%	SMD 0603	ANY	
32	2	R10,R11	47k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
33	1	R12	18k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
34	1	R13	16k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
35	1	R14	68k	0.125W	Chip resistor	±1%	SMD 0603	ANY	
36	1	R15	50k	0.5W	20-turns trimmer	±10%	SIL-3	Bourns	3296W-1-503LF
37	1	R16	8R2	0.125W	Chip resistor	±1%	SMD 0805	ANY	
38	1	R17	10R	0.125W	Chip resistor	±1%	SMD 0805	ANY	
39	1	SW1	SIL3	12V, 0.5A, 30mΩ	Switch		SIL-3	Knitter-switch	MMP1010D
40	4	TP1,TP2,TP3 TP4,TP5	Test point				Hole 1mm	RS	200-202
41	1	U1	ALED6001		Driver		HTSSOP-16	STMicroelectronics	ALED6001