

**PROJECT NAME: STEVAL-ISA177V1**

**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	2	D1,D2	MRA4007T3G	1A/1000V	power rectifier diode		SMA	ON SEMICONDUCTOR	MRA4007T3G
2	1	D3	BAT46ZFILM	0.15A/100V	signal Schottky diode		SOD-123	ST	BAT46ZFILM
3	1	D4	STPS2L60A	2A/60V	ultrafast diode		SMA	ST	STPS2L60A
4	2	L1, L2	B82144A2105J	1mH/0.2A	axial inductor		axial	EPCOS	B82144A2105J
5	1	L3	74404042033	3.3uH	Power inductor			Würth	74404042033
6	2	C1, C2	10uF	10uF/400V	electrolitic capacitor		Ø10mm - p5mm - h15mm	RS	
7	1	C3	C3216C0G2J102JT	1nF/630V	multilayer capacitor		1206	TDK	C3216C0G2J102JT
8	1	C4	C1608X7R1H104K080AA	100 nF/50V	ceramic multilayer cap		0603	MURATA	C1608X7R1H104K080AA
9	1	C5	GRM21BR61H225KA73L	2.2uF/50V	ceramic multilayer cap		0603	MURATA	GRM21BR61H225KA73L
10	1	C6	not mounted	1nF/50V	ceramic multilayer cap		0603	MURATA	not mounted
11	1	C7	22nF	22nF/50V	ceramic multilayer cap		0603	MURATA	GRM188R71H223KA01D
12	1	C8	1000uF	1000uF-10V	Elcap 0.040Q-1330mA	±20%	Ø8mm – p3.5mm – h16mm	Rubycon	10ZLH1000MEFC8X16
13	1	C9	100uF	100uF-16V	electrolitic capacitor	±20%	Ø5mm – p2mm – h11mm	Yageo	SK016M0100B2F-0511
14	1	R1	22 Ohm	22 Ohm/1W	axial metal film resistor	± 5%	Ø3m - p9mm	TE Connectivity	ROX1SJ22R
15	1	R2	220kohm	220kohm/0.66W	SMD resistor	± 5%	1206	Panasonic	ERJ-P08F2203V
16	1	R3	12kohm	12kohm/0.2W	SMD resistor	± 1%	0603	Panasonic	ERJP03F1202V
17	1	R4	CRG0603F39K	39kohm/0.1W	SMD resistor	± 1%	0603	TE Connectivity	CRG0603F39K
18	1	R5	CRG0603F56K	56kohm/0.1W	SMD resistor	± 1%	0603	TE Connectivity	CRG0603F56K
19	1	R6		0ohm/0.1W	SMD resistor	± 1%	0603		
20	1	R7	not mounted				0603		not mounted
21	1	R8	not mounted				0603		not mounted
22	1	R9	not mounted				0603		not mounted
23	1	IC1	VIPer013LS		Power Switcher		SO-16N	ST	
24	2	M1, M1	282837-2		2 ways Output connector			TE Connectivity	
25	1	TRAFO	Transformer		Transformer		TRH	Magnetica	1921.0054