

**PROJECT NAME: STEVAL-ISA179V1**

**BILL OF MATERIALS**

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer
1	1	D1	MRA4007T3G	1A/1000V	power rectifier diode		SMA	ON SEMICONDUCTOR
2	1	D2	MRA4007T3G	1A/1000V	power rectifier diode		SMA	ON SEMICONDUCTOR
3	1	D3	BAT41ZFILM	0.15A/100V	signal Schottky diode		SOD-123	STMICROELECTRONICS
4	1	D4	STTH1L06A	1A/600V	ultrafast diode		SMA	STMICROELECTRONICS
5	1	D5	STTH1L06A	1A/600V	ultrafast diode		SMA	STMICROELECTRONICS
6	1	L1	B82144A2105J		axial inductor		axial	EPCOS
7	1	L2	DR0810-474L	470uH/I <sub>SAT</sub> = 0.66A	radial inductor	± 10%	radial	COILCRAFT
8	1	C1	400AX4R7MEFC8X9	4.7uF/400V	electrolitic capacitor		Ø8mm – p3.5mm - h11mm	RUBYCON (or SAMXONN)
9	1	C2	400AX4R7MEFC8X9	4.7uF/400V	electrolitic capacitor		Ø8mm – p3.5mm - h11mm	RUBYCON (or SAMXONN)
10	1	C3	GRM21BR61H225KA73L	2.2 uF/50V	ceramic multilayer cap		0805	MURATA
11	1	C4	GRM188R71H104KA93D	100 nF/50V	ceramic multilayer cap		0603	MURATA
12	1	C5	not mounted		ceramic multilayer cap		0603	
13	1	C6	not mounted		ceramic multilayer cap		0603	
14	1	C7	C1608C0G1H102J080AA	1nF/50V	ceramic multilayer cap		0603	TDK
15	1	C8	C0805C221J5GACTU	220pF/50V	ceramic multilayer cap		0603	KEMET
16	1	C9	C0805C221J5GACTU	220pF/50V	ceramic multilayer cap		0603	KEMET
17	1	C10	CGA3E3X7R1H224K080AB	220nF/50V	ceramic multilayer cap		0603	TDK
18	1	C11	25ZL220MEFC8X11.5	220uF/25V	Elcap ultra-low ESR ZL series		Ø8mm – p.3.5mm – h11.5mm	RUBYCON
19	1	R1	ROX1SJ10R	10 Ohm/1W	axial metal film resistor	± 1%	Ø3m - p9mm	TE Connectivity
20	1	R2	ERJP03F8201V	8.2kohm/0.2W	SMD resistor	± 1%	0603	Panasonic
21	1	R3	ERJP03F1202V	12kohm/0.2W	SMD resistor	± 1%	0603	Panasonic
22	1	R4	ERJP03F1502V	15kohm/0.2W	SMD resistor	± 1%	0603	Panasonic
23	1	R5	ERJP03F1502V	15kohm/0.2W	SMD resistor	± 1%	0603	Panasonic
24	1	R6	ERJP03F1303V	130kohm/0.2W	SMD resistor	± 1%	0603	Panasonic
25	1	IC1	VIPer0PLD		Power Switcher		SO-16N	STMICROELECTRONICS
26	1	M1	282837-2		2 ways Output connector			TE Connectivity
27	1	M2	282837-2		2 ways Output connector			TE Connectivity