

PROJECT NAME: STEVAL-ISA178V1

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	D0, D1	MRA4007T3G	1A/1000V	power rectifier diode		SMA	ON SEMICONDUCTOR	MRA4007T3G
2	1	Daux	BAT41ZFILM	0.15A/100V	signal Schottky diode		SOD-123	ST	BAT41ZFILM
3	2	D4, D5	STTH1L06A	1A/600V	ultrafast diode		SMA	ST	STTH1L06A
4	1	L1	B82144A2105J	1mH	axial inductor		axial	EPCOS	B82144A2105J
5	1	L2	RFB0810-102L	1mH/ $I_{SAT} = 0.43A$	radial inductor	± 10%	radial	COILCRAFT	RFB0810-102L
6	1	C1, C2	400RX302R2M8X11.5	2.2uF/400V	electrolitic capacitor		Ø8mm – p3.5mm - h11mm	RUBYCON	400RX302R2M8X11.5
7	1	C3	GRM21BR61H225KA73L	2.2uF/50V	ceramic multilayer cap		0805	MURATA	GRM21BR61H225KA73L
8	1	C4	GRM188R71H104KA93D	100nF/50V	ceramic multilayer cap		0603	MURATA	GRM188R71H104KA93D
9	1	C5, C6	not mounted		ceramic multilayer cap		0603	NOT MOUNTED	not mounted
10	1	C7	C1608C0G1H102J080AA	1nF/50V	ceramic multilayer cap		0603	TDK	C1608C0G1H102J080AA
11	1	C8	CGA3E3X7R1H224K080A	220nF/50V	ceramic multilayer cap		0603	TDK	CGA3E3X7R1H224K080A
12	1	C9	16ZLH100MEFC5X11	100uF/16V ZLH series	ultra-low ESR Electrolytic cap		Ø5mm – p.2mm – h12.5mm	RUBYCON	16ZLH100MEFC5X11
13	1	R1	ROX1SJ22R	22ohm/1W flameproof	Metal Oxide Film Resistor	± 1%	Ø3m - p9mm	TE Connectivity	ROX1SJ22R
14	1	R2	ERJU03F2701V	2.7kohm/0.1W	SMD thick film resistor	± 1%	0603	Panasonic	ERJU03F2701V
15	1	R3	ERJU03F2202V	22kohm/0.2W	SMD thick film resistor	± 1%	0603	Panasonic	ERJU03F2202V
16	1	R4a	ERJPA3F5602V	56kohm/0.25W	SMD thick film resistor	± 1%	0603	Panasonic	ERJPA3F5602V
17	1	R4b	ERJU03F2202V	22kohm/0.2W	SMD thick film resistor	± 1%	0603	Panasonic	ERJU03F2202V
18	1	Rbl	ERJPA3F5601V	5.6kohm/0.25W	SMD resistor	± 1%	0603	Panasonic	ERJPA3F5601V
19	1	IC1	VIPer013XS		Power Switcher		SSO-10	ST	VIPer013XS
20	1	IN, OUT	282837-2		2 ways Output connector			TE Connectivity	282837-2