

**STEVAL-ISA182V1**

**BILL OF MATERIAL**

Item	Ref	Manufacturer	Part Number	Description	Package Information
1	IN	TE Connectivity	282837-2	Input connector	
2	OUT	TE Connectivity	282837-2	Output connector	
3	RV	EPCOS	B72210S0321K101	MOV	
4	BR	Taiwan Semiconductor	DBLS105G	Bridge rectifier	DBLS
5	FS	Littlefuse	0461002.ER	2A fuse	
6	R1	TE Connectivity	CRGH1206J220K	220kΩ±5% - 0.5W	1206
7	R2	Panasonic	ERJ3BQF4R7V	4.7Ω±1% - 0.2W	0603
8	R3	Panasonic	ERJ3EKF1303V	130kΩ±1% - 0.1W	0603
9	R4	Panasonic	ERJU03F3002V	30kΩ±1% - 0.1W	0603
10	R5	Panasonic	ERJT06J221V	220Ω±5% - 0.25W	0805
11	R6	Panasonic	ERJ-3EKF4702V	47kΩ±1% - 0.1W	0603
12	R7	Panasonic	ERJ3GEYJ102V	1kΩ±5% - 0.1W	0603
13	R8	Panasonic	ERJ3GEYJ154V	150kΩ±5% - 0.1W	0603
14	R9	Panasonic	ERJ3GEYJ244V	240kΩ±5% - 0.1W	0603
15	R10	Panasonic	ERJP03F1303V	130kΩ±1% - 0.2W	0603
16	R11	Panasonic	ERJP03F1502V	15kΩ±1% - 0.2W	0603
17	R12	Panasonic	ERJ3GEYJ225V	2.2MΩ±5% - 0.1W	0603
18	C1	Vishay	BFC233920224	220nF-275V X2 cap	(17.5x7)mm
19	C2	Rubycon	250BXC22MEFC10X16	Elcap 22uF-250V	Ø10mm - p5mm - h 16mm
20	C3	Rubycon	250BXC22MEFC10X16	Elcap 22uF-250V	Ø10mm - p5mm - h 16mm
21	C4	TDK	C3216C0G2J221J060AA	MLCC capacitor 220pF-630V	1206
22	C5	Murata	GRM188R71H221KA01D	MLCC capacitor 220pF-50V	0603
23	C6	Rubycon	35YXM33MEFC5X11	Elcap 33uF-35V	Ø5mm - p2mm - h 11mm
24	C7	Murata	GRM188R71H103KA01D	MLCC capacitor 10nF-50V	0603
25	C8	Murata	GRM188R71H333KA61D	MLCC capacitor 33nF-50V	0603
26	C9	Rubycon	25ZLK820M10X20	Elcap 820uF-25V	Ø10mm - p5mm - h 20mm
27	C10	Rubycon	25YXJ220M6.3X11	Elcap 220uF-25V	Ø6.3mm - p2.5mm - h 11mm
28	C11	Murata	GRM188C81E105KAADD	MLCC capacitor 1uF-25V	0603
29	C12	Murata	GRM188R71H103KA01D	MLCC capacitor 10nF-50V	0603
30	C13	Murata	DE2E3KY222MA2BM01	Ceramic X1/Y2 capacitor 2.2nF 250Vac	Ø8 mm - p5 mm
31	C14	Murata	GRM188F51H473ZA01D	MLCC capacitor 47nF-50V	0603
32	D1	STMicroelectronics	STTH1L06A	Ultrafast diode 1A-600V	SMA
33	D2	STMicroelectronics	BAT41ZFILM	Signal schottky 0.2A-100V	SOD-123
34	D3	STMicroelectronics	BAT41ZFILM	Signal schottky 0.2A-100V	SOD-123
35	D4	STMicroelectronics	BAT41ZFILM	Signal schottky 0.2A-100V	SOD-123
36	D5	ON Semiconductor	MMSZ5248BT1G	Zener diode 18V	SOD-123
37	D6	STMicroelectronics	STPS5H100B	Power Schottky 100V-5A	DPAK
38	L1	Epcos	B82144A2105J	1mH axial inductor	
39	L2	Coilcraft	SD43-332ML	3.3uH	(4.7x4.2) mm
40	CM	Würth Elektronik	744821120	20mH CM CHOKE	
41	IC1 (*)	STMicroelectronics	VIPer38HD	Offline HV converter	SO16
42	OPT	Vishay	SFH610A-2	Optocoupler	SMD4
43	REF	STMicroelectronics	TS432ILT	Reference	SOT23
44	T1	Yujingtech	YJ-310V600210	Flyback transformer	EE13VP-11