

PROJECT NAME: STEVAL-ISA175V1
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	5	R1, R2, R3, R4, R5	220kΩ	0.33W	SMD resistor	5%	1206	Panasonic	ERJ-P08J224V
2	1	R6	100Ω	0.33W	SMD resistor	5%	1206	Panasonic	ERJP08J101V
3	1	R7	47Ω	0.5W	SMD resistor	1%	0805	Panasonic	ERJP06F47R0V
4	1	R8	10Ω	0.2W	SMD resistor	1%	0603	Panasonic	ERJP03F10R0V
5	1	R9	1kΩ	0.1W	SMD resistor	1%	0603	Panasonic	ERJ3GEYJ102V
6	1	R10	180kΩ	0.2W	SMD resistor	1%	0603	Panasonic	ERJP03F1803V
7	1	R11	133kΩ	0.1W	SMD resistor	1%	0603	Vishay	CRCW0603133KFKEA
8	1	R12	Not connected	NOT Assembly	NOT Assembly		NOT Assembly	NOT Assembly	NOT Assembly
9	1	R13	12kΩ	0.1W	SMD resistor	5%	0603	Panasonic	ERJ3GEYJ123V
10	1	R14	12kΩ	0.2W	SMD resistor	1%	0603	Panasonic	ERJP03F1202V
11	1	R15	Not connected	NOT Assembly	NOT Assembly		NOT Assembly	NOT Assembly	NOT Assembly
12	1	R16	680kΩ	1/16W	SMD resistor	1%	0402	TE Connectivity	CRG0402F680K
13	1	R17	11.5kΩ	0.1W	SMD resistor	0.1%	0402	TE Connectivity	CPF0402B11K5E1
14	1	R18	4.22kΩ	0.1W	SMD resistor	0.1%	0402	TE Connectivity	RN73C1E4K22BTG
15	1	C1	220nF	440Vac	X1 film capacitor		(26x11)mm - p22.5mm	Kemet	PHE844RD6220KR06L2
16	1	C2	220nF	630V	MLCC		(5.7x5)mm	Murata	GRM55DR72J224KW01L
17	2	C3, C4	33μF	350V	Elcap		Ø12.5mm - p5mm - h21.5mm	Nichicon	UCY2V330MHD1TO
18	1	C5	1nF	630V	MLCC		1206	TDK	C3216C0G2J102JT
19	2	C6, C9	100pF	50V	MLCC		0603	Murata	GRM1885C1H101JA01D
20	1	C7	10μF	25V	MLCC		0805	TDK	C2012X5R1E106K125AB
21	1	C8	Not connected	NOT Assembly	NOT Assembly		NOT Assembly	NOT Assembly	NOT Assembly
22	1	C10	470μF	25V	Elcap		Ø10mm - p5mm - h12.5mm	Rubycon	25ZLH470MEFC10X12.5
23	1	C11	100μF	25V	Elcap		Ø6.3mm - p2.5mm - h12.5mm	Rubycon	25YXF100MEFC6.3X11
24	1	C12	Not connected	not assembly	not assembly		not assembly	not assembly	not assembly
25	1	C13	3.3μF	10V	MLCC		0603	Murata	GRM188R61A335KE15D
26	1	C14	22nF	50V	MLCC		0603	Murata	GRM188R71H223KA01D
27	2	C15, C16	2.2μF	35V	MLCC		0603	TDK	C1608X5R1V225K080AC
28	1	C17	100nF	50V	MLCC		0402	TDK	C1005X5R1H104K050BB
29	1	C18	22pF	50V	MLCC		0402	Vishay	VJ0402A220JNAAJ
30	1	C19	10nF	50V	MLCC		0402	Murata	GRM155R71H103KA88D
31	1	C20	22μF	6.3V	MLCC		0805	Murata	GRM21BR60J226ME39L
32	2	C21, C22	1μF	25V	MLCC		0603	Murata	GRM188C81E105KAADD
33	1	C23	2.2nF	250Vac	Y ceramic capacitor		(8x5)mm	Murata	DE2E3KY222MA2BM01
34	1	C24	10μF	25V	MLCC		0603	Murata	GRM188R61E106MA73J
35	1	C25	220μF	25V	Elcap		Ø6.3mm - p2.5mm - h11mm	Rubycon	25PK220MEFC6.3X11
36	1	D1	1A	1000V	Power rectified diode		SMA	ON Semiconductor	MRA4007T3G
37	1	D2	1A	150V	Power schottky		STMite	STMicroelectronics	STPS1150M
38	1	D3	2A	200V	Power schottky		SMB	STMicroelectronics	STPS2200U
39	1	D4	1A	100V	Power schottky		SMA	STMicroelectronics	STPS1H100A
40	1	D5	18V	0.5W	Zener diode	5%	SOD-123	Vishay	MMSZ5248B-V-GS08
41	1	D6	100V	100V	Transil		SMA	STMicroelectronics	SMA6J100A-TR
42	1	BR	2A	1200V	Bridge rectifier		DBLS	Taiwan Semiconductor	DBLS208G RD
43	1	TF			Flyback transformer		E16	Würth Elektronik	750314352 rev1
44	1	L1	1mH		Shielded Power inductor		(10x10x3) mm	Würth Elektronik	7447713102
45	1	L2	470μH		Shielded Power inductor		(10x10x3) mm	Würth Elektronik	7447713471

46	1	L3	4.7μH		Power inductor		(6.6x4.45x2.92) mm	Würth Elektronik	74455047
47	1	L4	47μH		Shielded Power inductor		(4.8x4.8x2.8) mm	Würth Elektronik	744043470
48	1	CM	10mH		Common Mode choke		(15x7.5x18) mm	Würth Elektronik	744821110
49	1	IC1			HV converter		SO16N	STMicroelectronics	VIPer26HD
50	1	IC2			5V LDO		SOT23-5	STMicroelectronics	LDK220M50R
51	1	IC3			Step down regulator		DFN10 (3x3) mm	STMicroelectronics	PM6644
52	1	Ref			Reference		SOT23	STMicroelectronics	TS432ILT
53	1	Opto			Optoisolator		SMD4	Vishay	SFH610A-2
54	2	NTC1, NTC2	16Ω		Inrush current limiter			EPCOS	B57236S160M
55	1	F1	2A		Fuse		SMD4	Littlefuse	0461002.ER
56	1	OUT			4 vie female connector		2.54mm pcb	Molex	0022152046
57	1	IN			3 vie female connector		2.54mm pcb	Molex	0022162030
58	4	M1, M2, M3, M4			Column Nylon		M3; L=10mm	HARWIN	R1812-91
59	4	M5, M6, M7, M8			Screw Nylon		M3; L=6mm	RS	527-971