

STEVAL-ISA105V1

Bill Of Materials

S. No.	QTY	Part Reference	Part No.	Part Description	Package	Manufacturer
1	1	BR1	MB10S	1000V, Bridge Rectifier	SOIC4	
2	2	C2,C3	22uF/400V	22uF,400V,105degC / Rubycon-MXR series or equivalent	TH	Rubycon
3	1	C4	470uF/25V Low ESR	470uF,25V,105degC / Rubycon-ZL series or equivalent	TH	Rubycon
4	1	C5	100nF	100nF Plastic film or ceramic	0805	
5	1	C6	2.2uF/35V	2.2uF,35V,105degC / Sanyo-CG series or equivalent	TH	Sanyo
6	1	C7	2.2nF- Y1 Cap	2.2nF Y1 class	TH	
7	1	C8	1nF	1nF, 1% Plastic film or ceramic	0805	
8	1	C9	4.7nF	4.7nF, 1% Plastic film or ceramic	0805	
9	1	C10	470nF	470nF, 1% Plastic film or ceramic	0805	
10	2	C11,C12	220nF/630V	220nF,630V, Box Capacitor	TH	
11	1	C13	1000uF/25V Low ESR	1000uF,25V,105degC / Rubycon-ZL series or equivalent	TH	Rubycon
12	2	C14,C18	100uF/16V Low ESR	100uF,16V,105degC / Rubycon-ZL series or equivalent	TH	Rubycon
13	2	C15,C19	470uF/16V Low ESR	470uF,16V,105degC / Rubycon-ZL series or equivalent	TH	Rubycon
15	3	C16,C17,C20	100nF	100nF, 1% Plastic film or ceramic	0805	
14	2	C21,C22	10nF	10nF, 1% Plastic film or ceramic	0806	
16	1	C23	2.2nF	2.2nF,630V, Plastic film or ceramic	TH	
17	3	D1,D5,D6	STPS1H100A	Schottky	SMB	STMicroelectronics
18	1	D2	STTH108A	1A / 800V, Ultra Fast	SMB	STMicroelectronics
19	1	D3	1N4148	0.3A / 75V, glass case	SOD-123	
20	4	D4,D7,D8,D9	1N4007	1A / 1000V	TH	
21	2	L1,L2	1mH	1mH, Drum Inductor	TH	
22	1	MOV1	SO5K310/310V	Varistor, 460Vac, 7mm Dia	TH	Epcos or equivalent
23	1	R2	0E	0E	0805	
24	1	R3	1.8K	1.8K	0805	

25	1	R4	4.7E	4.7E	0805	
26	1	R5	33K	33K	0805	
27	2	R6,R7	8.2K	8.2K	0805	
28	1	R8	1.3E/1206	1.3E/1206	1206	
29	1	R9	DNL/1206	DNL/1206	1206	
30	1	R10	51K	51K	0805	
31	1	R13	22E 2W	22E 2W	TH	
32	4	R14,R15,R20,R21	3M	3M	0805	
33	2	R16,R17	3.3K	3.3K	0805	
34	1	R18	47K/1W	47K/1W	TH	
35	1	TR1	TR1	E20/10/6, N67 Core	TRANSFORMER E20/10/6	
36	1	U1	ALTAIR04-900	ALTAIR04-900 QR PWM controller	SOIC16_N	STMicroelectronics
37	1	U2	LD2985BM33R	3.3V, Very low drop and low noise voltage regulator	DPAK	STMicroelectronics
38	1	U3	LD2985BM50R	5.0V, Very low drop and low noise voltage regulator	DPAK	STMicroelectronics