



PROJECT NAME: STEVAL-ISA033V1

BILL OF MATERIALS

Item	Quantity	Reference	Part	Foot-Print	Manufacturer	Description	Manuf.code	R.S. code
AC/DC CONVERTER								
1	1	J22	PCB Mount Screw Terminal	TRH-Pitch7.62	PHOENIX CONTACT			189-5966
2	1	J8	Double Row Strip line-pitch 2.54	TRH	ANY			360-6235
3	1	RT1	VARISTOR	TRH			NOT assy	NOT assy
4	1	RT2	NTC 10 Ohm 7.5A	TRH	EPCOS	NTC		211-8002
5	2	C1, C2	100N 300Vac X2	TRH-pitch-15mm				441-9616
6	1	C3	220uF-450V	TRH-pitch-11mm	EPCOS	ALUMINIUM ELCAP		
7	1	C4	2.2N 1000V	TRH-pitch-5mm		HV CERCAP		473-0389
8	1	C5	150N - 50V	TRH-pitch-5mm	ANY	CERCAP		
9	3	C6, C8, C12	2.2nF - 50V	TRH-pitch-3mm	ANY	CERCAP		
10	1	C7	100pF - 50V	TRH-pitch-3mm	ANY	CERCAP		
11	1	C9	330uF-35V YXF	TRH-pitch-6mm	RUBYCON	ALUMINIUM ELCAP		
12	1	C10	680nF-50V	TRH-pitch-5mm	ANY	CERCAP		
13	1	C11	1uF-35V YXF	TRH-pitch-3mm	RUBYCON	ALUMINIUM ELCAP		
14	1	C13	2N2-Y1	TRH	MURATA	Y1 SAFETY CAP.	DE1E3KX222M	214-5903
15	1	C14	270nF-50V	TRH-pitch-5mm	ANY	CERCAP		
16	1	C21	1nF - 50V	TRH-pitch-5mm	ANY	CERCAP		
17	2	C22, C23		TRH-pitch-5mm			NOT assy	
18	4	C37, C38, Cout1, Cout2	330uF-50V ZL	TRH-pitch-5mm	RUBYCON	ALUMINIUM ELCAP		
19	1	L1	20mH	TRH	TDK	COMMON MODE CHOKE	HF2826-203Y1R5-T01	
20	1	R1	20KΩ 6W 5%	TRH	VISHAY			485-3151
21	2	R2, R4	15KΩ 1/4W 5%	TRH	ANY			
22	0	R3	RES	TRH			NOT assy	
23	1	R5	18KΩ 1/4W 1%	TRH	ANY			
24	1	R6	3.9KΩ 1/4W 1%	TRH	ANY			
25	1	R7	15KΩ 1/4W 5%	TRH	ANY			
26	1	R8	1KΩ 1/4W 5%	TRH	ANY			
27	1	R9	2.7KΩ 1/4W 5%	TRH	ANY			
28	1	R10	0.20Ω 15W 1%	TO126				2509014115
29	2	R11, R14	22Ω 1/4W 5%	TRH	ANY			
30	1	R12	1KΩ 1/4W 5%	TRH-verticale	ANY			
31	1	R13	2.2KΩ 1/4W 5%	TRH	ANY			
32	1	R15	330KΩ 1/4W 5%	TRH	ANY			
33	0	R16, R17, R18	RES	TRH	ANY		NOT assy	
34	1	R19	47KΩ 1/4W 5%	TRH	ANY			

35	1	R20	12KΩ 1/4W 5%	TRH	ANY			
36	1	R21	27KΩ 1/4W 5%	TRH	ANY			
37	1	R46	220Ω 2W 5%	TRH				131-980
38	1	D1	KBU6M	TRH	GENERAL SEMICONDUCTOR	BRIDGE RECTIFIER		226-5631
39	1	D2	STTH106	TRH	ST	FAST REC. RECTIFIER	STTH106	
40	2	D5, D6	1N4148	TRH	VISHAY	GEN. PURPOSE DIODE		
41	1	D7	STPS16H100CT	TO220	ST	POWER SCHOTTKY RECT.	STPS16H100CT	
42	0	D8	TRANSIL	TRH			NOT assy	
43	1	M1	STP12NK80Z	TO220	ST		STP12NK80Z	
44	1	Q2	BC547B	TO92	ST	SMALL SIGNAL NPN BJT		
45	1	U1	L5991	DIP16	ST	PRIMARY CONTROLLER	L5991	
46	1	U3	TL431	TO92	ST	SHUNT REGULATOR	TL431	
47	1	U4	PC817B	TRH	SHARP	OPTOCOUPLER	PC817B	cod.distrelec 63.02.74
48	1	T5	TRANSFORMER 1012.0021	TRH	MAGNETICA	TRANSFORMER	1012.0021	
DC/DC CONVERTER								
49	1	C27	22N - 50V	TRH-pitch-5mm	ANY	CERCAP		
50	1	C28	220uF-25V ZL	TRH-pitch-5mm	RUBYCON	ALUMINIUM ELCAP		
51	1	C29	220pF - 50V	TRH-pitch-5mm	ANY	CERCAP		
52	1	C30	10uF-50V ZL	TRH-pitch-3mm	RUBYCON	ALUMINIUM ELCAP		
53	1	C31	100N - 50V	TRH-pitch-5mm	ANY	CERCAP		
54	1	C39	1uF-450V YK	TRH-pitch-3mm	RUBYCON	ALUMINIUM ELCAP		
55	1	Cout2	330uF-25V ZL	TRH-pitch-4mm	RUBYCON	ALUMINIUM ELCAP		
56	1	Cout3	33uF-16V ZL	TRH-pitch-3mm	RUBYCON	ALUMINIUM ELCAP		
57	1	R23	1KΩ 1/4W 5%	TRH	ANY			
58	1	R24	4.7KΩ 1/4W 5%	TRH	ANY			
59	1	R25	6.8KΩ 1/4W 5%	TRH	ANY			
60	1	R26	3.3KΩ 1/4W 5%	TRH	ANY			
61	1	R27	2.2KΩ 1/4W 1%	TRH	ANY			148-584
62	1	R28	56KΩ 1/4W 5%	TRH	ANY			
63	2	R29, R34	10KΩ 1/4W 5%	TRH	ANY			
64	1	R30	22KΩ 1/4W 5%	TRH	ANY			
65	1	R31	2.7KΩ 1/4W 1%	TRH	ANY			148-607
66	1	R32	12KΩ 1/4W 1%	TRH	ANY			148-758
67	1	R33	150KΩ 2W 5%	TRH	ANY			135-443
68	1	R40	180KΩ 1/4W 5%	TRH	ANY			
69	1	R48	860KΩ 1/4W 5%	TRH	ANY			
70	1	R49	1.2KΩ 1/4W 1%	TRH	ANY			148-528
71	1	Rsense	0.08Ω	SMD/2010	ANY		Distrelec code:71.03.88	
72	1	Rsense1	0.04Ω	SMD/2010	ANY		Distrelec code:71.03.84	
73	2	D3, D4	STPS2L25U	SMA	ST		STPS2L25U	
74	1	D9	STTH106	TRH	ST	FAST REC. RECTIFIER	STTH106	

74A	1	L4	47uH-1.4A	SMD	TDK	SMD POWER INDUCTOR	SLF10145T-470M1R4	
75	1	L3	15uH 3A	SMD	COILCRAFT	SMD POWER INDUCTOR	DO3316P-153	
76	1	F2	FUSE-4A small space+socket	TRH-Diameter 8.5	ANY	fuse and socket	i	226-6555
77	1	M2	STS5PF30L	SO8	ST	P-CHANNEL MOSFET	STS5PF30L	
78	1	Q1	BC847A	TO92	ST		BC847A	
79	1	U2	L78M05CP	TO220	ST		L78M05CP	
80	1	U3	L5973D	SO8	ST		L5973D	
81	1	U6	PC852	DIP4	SHARP	OPTOCOUPLER	PC852	175-233
82	1	SW1	STRIPLINE SINGOLA	TRH	ANY			
83	1	J9	STRIPLINE SINGOLA	TRH	ANY			
84	1	J10	CONNETTORE A 2 MORSETTI	TRH	ANY			
85	1	J21	CONNETTORE A 8 POLI	TRH	MOLEX		26-48-1125	245-4639
SWITCH								
86	1	R36	0ohm	TRH	ANY	WIRE JUMP		
87	1	R35	5.6KΩ 1/4W 5%	TRH	ANY			
88	1	R50	0.1Ω 2W 5%	SMD/2512	SEI-Electronics	Current sense resistor	CSR-2-0.1-5%	2509045327
89	1	R37	3.3KΩ 1/4W 5%	TRH	ANY			
90	1	R38	820Ω 1/4W 5%	TRH	ANY			
91	2	R39, R44	10KΩ 1/4W 5%	TRH	ANY			
92	2	R42, R43	1KΩ 1/4W 5%	TRH	ANY			
93	1	R45	1.8KΩ 1/4W 5%	TRH	ANY			
94	1	R47	1.2KΩ 1/4W 5%	TRH	ANY			
95	3	C33, C34, C35	100N - 50V	TRH-pitch-5mm	ANY	CERCAP		
96	1	U16	TL431	TO92	ST	SHUNT REGULATOR	TL431	
97	2	U26, U28	HCF4011B	SO14	ST		HCF4011B	
98	1	U27	TS912	SO8	ST		TS912	
99	2	U29, U30	VN750PT		ST	HIGH SIDE DRIVER	VN750PT	
100	1	D10	STPS20L25C	D2PAK	ST	OWER SCHOTTCKY DIOD	STPS20L25C	
101	2	J19, J20	Double Row Strip line-pitch 2.54	TRH	ANY			360-6235
102								
103								
104	10	STRAP for strip line	STRAP for strip line	sip100	ANY	for the insertion see testing file.		160-3880
105	6	spacer	spacer in nylon size 10mm					246-9940
106	2	head-sink	9.5 ° C/W		ELCART-4/9625	WWW.elcart.com	ELCART-4/9625	
107	1	head-sink	18° C/W		ELCART-4/9610	WWW.elcart.com	ELCART-4/9610	