

PROJECT NAME:

STEVAl-IHM045V1

Ver 1.2

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer
1	3	C1,C2,C3	10pF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
2	2	C25,C29	100nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
3	1	C14	470nF	5%	25V		SMD MULT.CERAMIC CAP.	0805	ANY
4	3	C33,C35,C40	2.2nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
5	3	C26,C30,C31	680pF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
6	1	C20	10nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
7	1	C22	4.7nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY
8	2	C24,C27	4.7uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC
9	3	C13,C15,C16	2.2uF	5%	25V		SMD MULT.CERAMIC CAP.	0805	ANY
10	1	C21	100uF	20%	450V		ALUMINIUM ELECTROLYTIC CAPACITOR	TH	
11	1	C42	10uF	20%	6.3V		CERAMIC SMT CAPACITOR	1206	MURATA
12	1	C23	100uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC
13	3	C43,C44,C45	1uF	20%	10V		SMD MULT.CERAMIC CAP.	0805	ANY
14	1	C28	22uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC
15	1	C46	1nF	5%	630V		Polypropylene Capacitor	TH	Kemet
16	1	C47	2.2uF		25V			0805	
17	1	C48	100nF		50V			0805	
18	1	C49	22nF		6.3V			0603	
19	1	C50	1nF		6.3V			0603	
20	14	R2,R3,R4,R6,R58,R61,R69,R74,R79,R82,R106,R107,R108,R110	N.M					0603	ANY
21	7	R5,R7,R55,R56,R57,R104,R105	0	1%				0603	ANY
22	7	R8,R11,R12,R51,R62,R75,R83	4.7K	1%				0603	ANY
23	7	R92,R93,R95,R97,R98,R102,R103	1K	1%				0603	ANY
24	3	R44,R45,R46	0.47	1%		2W		2512	IRC
25	2	R62,R53	470K	1%				1206	ANY
26	1	R54	8.2K	1%				0603	ANY
27	1	R109	220K	1%				1206	ANY
28	1	R113	15K	1%				0603	ANY
29	1	R111	22K	1%				0603	ANY
30	1	R112	51K	1%				0603	ANY
31	1	R115	2K	1%				0603	ANY
32	4	R63,R76,R84,R114	2.2K	1%				0603	ANY
33	4	R70,R77,R85,R94	5.6K	1%				0603	ANY
34	3	R60,R73,R81	680	1%				0603	ANY
35	15	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP13,TP14,TP17,TP18,TP19,TP20,TP21,TP22					Loop terminal assembly, black 1.02mm dia		Vero Technologies
36	4	D7,D8,D9,D10	STTH1R04U				FAST RECOVERY RECTIFIER DIODES	SMD SMB	ST
37	1	D12	STTH1L06A		600V/1A		TURBO 2 ULTRAFAST HIGH VOLTAGE RECTIFIER	SMA	ST
38	1	D14	1N4148WT				High Conductance Fast Switching Diode	SOD 523F	Fairchild
39	1	D16	GREEN LED				CHIPLED SMT	0805	AVAG
40	1	D23	STPS1150MF				Power Schottky rectifier	STmite flat	ST
41	1	D24	STPS1L60MF				Power Schottky rectifier	STmite flat	ST
42	1	F1	FUSE		2A		RADIAL LEAD MICROFUSE		HOLLY
43	1	J1	MOTOR_CONNECTOR				MULTIPOLES CONNECTOR		Tyco Electronics
44	1	J2	STRIPLINE1X3				STRIP LINE-MALE 90°		KONTEK
45	5	J6	Jumper				Jumper female		RS
46	1	J6	MOTOR	250V	12A		3 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX
47	1	J6	MOTOR				3 WAYS CONNECTOR FEMALE 90° 5.08mm		PHOENIX
48	1	J7	AC MAIN	250V	12A		2 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX
49	2	J8,J12	DC BUS/15V ext	250V	12A		2 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX
50	6	J9,J10	MOUNTING HOLE		10A		Three way HV Selector		HARWIN
51	1	J11	JUMPER				2 way single row strip line connector (male connector) 2,54mm pitch	Vertical Through Hole	ANY
52	2		Insulated Jumper Blue				HV Insulated Jumper, 5.08mm, default 3sh position		HARWIN
53	2		AC MAIN/DC BUS				2 WAYS CONNECTOR FEMALE 90° 5.08mm		PHOENIX
54	1	NTC1	NTC			300mW	NTC THERMISTOR	1206	EPCOS
55	1	NTC2	NTC		4.2A		NTC THERMISTOR		EPCOS
56	1	T2	SM Transformer 453uH 325mW				SM Transformer 453uH 325mW		MAGNETICA
57	1	U2	STGIPN3H60A				Small low-loss intelligent molded module	NDIP-26L	ST
58	1	U3	LD1117S33TR				Low drop fixed and adjustable positive voltage regulators	SMD SOT-223	ST
59									
60	1	U10	TSV994				Rail-to-rail input/output 20MHz GBP operational amplifiers		ST
61	1	U11	TS374				LOW POWER QUAD CMOS VOLTAGE COMPARATOR		ST
62	1	U12	VIPer06LS				Fixed-frequency VIPer™ plus family	SSO10	ST
63	1						2 WAYS CONNECTOR MALE 5.08mm		PHOENIX
64	1						2 WAYS CONNECTOR MALE 5.08mm		PHOENIX
65	6	Screw M3-20 mm							
66	6	Washer M3							
67	2	Screw nut M3							
68	4	Nylon spacer M3 20mm							
69	1	Plastic bag							