

STEVAL-ISA102V2

BILL OF MATERIAL

Item	Ref.	Manufacturer	Description	Part Type/ Part Value	PACKAGE	NOTE
1	F1	WICHMANN	FUSE T4A - TIME DELAY, Input protection	FUSE 4A	DIA. 8x8 MM PITCH 5MM	
2	P1	CHENYI ELECTRONICS	600V-1A SINGLE PHASE BRIDGE RECTIFIER, Input Rectification	W06	DIA. 9x7 MM PITCH 5.5MM	
3	C1	EPCOS	FILM CAPACITOR B32653-A6224-K, Input Capacitor,EMI ,THD	220NF - 630V		
4	C2	AVX	50V CERCAP - GENERAL PURPOSE, Multiplier	10NF		
5	C3	AVX	SR305E225MAR - 50V CERAMIC CAPACITOR - Z5U , NetW. compensation	2u2F		
6	C4	AVX	50V CERCAP - GENERAL PURPOSE, charging Pump at Start up	100NF		
7	C5	AVX	50V CERCAP - GENERAL PURPOSE, Aux winding Capacitor	10NF		
8	C6	DAEWOO	ALUMINIUM ELCAP - ED SERIES - 85°C, Output Capacitor, ripple	47 uF - 450V		
9	C23	AVX	50V CERCAP - GENERAL PURPOSE, NetW. compensation	150NF		
10	C29	RUBYCON	ALUMINIUM ELCAP - YK - 85°C, charging Pump at Start up	22 uF - 50V		
11	R1	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Input Divider	1M0		
12	R2	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Input Divider	1M0		
13	R3	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Input Divider	15K		
14	R4	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Start up Resistor	270K		
15	R5	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Start up Resistor	270K		
16	R6	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, ZCD Resistor	47K		
17	R7	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Gate Driver Resistor	33R		
18	R8	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C,	47K		
19	R9	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Sense Resistor	0R68		
20	R10	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Sense Resistor	0R68		
21	R11	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Output Divider	1M0		
22	R12	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Output Divider	1M0		
23	R13	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Output Divider	15K		
24	R13B	BC COMPONENTS	MBB0207 AXIAL FILM RES - 0.4W - 1% - 50ppm/°C, Output Divider	82K		
25	R14	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, Aux winding Resistor	100R		
26	R15		TINNER WIRE JUMPER,	SHORTED		
27	R50	BC COMPONENTS	SFR25 AXIAL STAND. FILM RES - 0.4W - 5% - 250ppm/°C, NetW. compensation	22K		
28	D1	STMICROELECTRONICS	ULTRAFAST HIGH VOLTAGE RECTIFIER, Output Rectifier Diode	STTH1L06		
29	D2	FAIRCHILD	18V-0.5W ZENER DIODE, Power Supply Zener	1N5248B		
30	D8	VISHAY	FAST SWITCHING DIODE, Power Supply Diode	1N4148		
31	NTC1	EPCOS	B57237S0259M000, Output Power Dissipation	2R5-S237		
32	T1	ITACOIL	E25x13x7 core, 0.7 mH , Boost Inductor with Aux. winding	E2543/E		
33	U1	STMICROELECTRONICS	TRANSITION MODE PFC CONTROLLER, Controller	L6562A		
34	Q1	STMICROELECTRONICS	N-CHANNEL MD-MESH POWER MOSFET, Power Switch	STF7N60M2		with heatsink
35	HS1	FISCHER ELEKTRONIK	Q1 HEAT SINK FOR TO-220 - SCREW MOUNTED - 21 °C/W,	FK218 32		
36	J1	PHOENIX CONTACT	PCB TERM. BLOCK, SCREW CONN., PITCH 5MM - 3 W.,	MKDS 1,5/ 3-5,08		
37	J2	PHOENIX CONTACT	PCB TERM. BLOCK, SCREW CONN., PITCH 5MM - 3 W.,	MKDS 1,5/ 3-5,08		
38		R.S.325-643	Tapped Thru nylon spacer,M3x10mm	size10.5x3mm		n.4 spacer each PCB