

STEVAL-ISA008V1 Bill of Material

Reference	Part	Manufacturer	Description	Manuf.code
C1, C19	1N0-Y1		Y1 SAFETY CAP.	
C2	220N 275Vac X2	VISHAY		
C3	68uF-400V	EPCOS	ALUMINIUM ELCAP	B43504A9686M000
C4	1N0 - 50V	ANY	CERCAP	
C5, C6	1000uF-25V YXF	RUBYCON	ALUMINIUM ELCAP	
C7, C9, C13, C16, C17	100N - 50V	ANY	CERCAP	
C8	470uF-16V YXF	RUBYCON	ALUMINIUM ELCAP	
C10	47uF-25V YK	RUBYCON	ALUMINIUM ELCAP	
C11	2200uF-6.3V YX	RUBYCON	ALUMINIUM ELCAP	
C12	100uF-25V YXF	RUBYCON	ALUMINIUM ELCAP	
C14	10N - 50V	ANY	CERCAP	
C15	NOT USED		NOT USED	
C18	220PF-1KV HR	ANY	HV CERCAP	
C20	15N - 50V	ANY	CERCAP	
J1	CONNETTORE A 2 MORSETTI	PHOENIX CONTACT		
J2	CONNETTORE A 8 MORSETTI	PHOENIX CONTACT		
D1	DF06M		1A BRIDGE RECTIFIER	
D2	1.5KE180A	ST	TRANSIL	1.5KE180A
*D3	STPS8H100CF	ST	POWER SCHOTTKY RECT.	STPS8H100CF
D4, D8	STTH106	ST	FAST REC. RECTIFIER	
D5	STTH102	ST	FAST REC. RECTIFIER	STTH102
D6, D9	1N4148	VISHAY	GEN. PURPOSE DIODE	
D7	STPS3L60	ST	POWER SCHOTTKY RECT.	STPS3L60
F1	FUSE 2A		Fusibile 2A ingombro ridotto+zoccolo	
L1	2.7uH ELC08D	PANASONIC	DRUM INDUCTOR ELC08D	
T1	24140011_D	ELDOR CORP.or PULSE	POWER TRANSFORMER	24140011_D
T2	18mH	TDK	18mH-0.5A FILTER INDUCTOR	HF2022R- 183Y0R5-01
Q1, Q2	BC547B	ST	SMALL SIGNAL NPN BJT	
RT1	NTC_16R S236	EPCOS	NTC THERMISTOR	
R1	47Ω 1/2W 5%	ANY	STANDARD FILM RESISTOR	
R2	5.6KΩ 1/4W 5%	ANY	STANDARD FILM RESISTOR	

R3	RES		NOT USED	
R4	1.5Ω 1/4W 5%	ANY	STANDARD FILM RESISTOR	
R5	180Ω 1/4W 5%	ANY	STANDARD FILM RESISTOR	
R6	3.65KΩ 1/4W 1%	ANY	METAL FILM RESISTOR	
R7	1KΩ 1/4W 5%	ANY	METAL FILM RESISTOR	
R8	RES		NOT USED	
R9	1.5KΩ 1/4W 1%	ANY	METAL FILM RESISTOR	
R10	33KΩ 1/4W 5%	ANY	STANDARD FILM RESISTOR	
R11	4.7KΩ 1/4W 1%	ANY	METAL FILM RESISTOR	
R12	RES		NOT USED	
R13	470Ω 1W 5%	ANY	POWER RESISTOR 1W	
R14	1.8KΩ 1/4W 5%	ANY	STANDARD FILM RESISTOR	
R15	1KΩ 1/4W 5%	ANY	STANDARD FILM RESISTOR	
R16	1KΩ 1/4W 5%	ANY	STANDARD FILM RESISTOR	
ISO1	SFH617A-2	INFINEON	OPTOCOUPLER	
U1	VIPer53DIP	ST	OFF-LINE PRIMARY SWITCH	VIPER53DIP-E
U2	TL431	ST	SHUNT REGULATOR	TL431

* Mounted with heat-sink $R_{th} \leq 23^{\circ}\text{C/W}$