

STEVAL-ISA122V1 BOM

Part reference	Description	Part name	Manufacturer
BR1	Bridge diodes	DF06M	Fairchild/ Vishay
C1,C13	100 nF X2 capacitor		
C3	33 μ F 450 V electrolytic cap.		
C4	22 μ F 35 V electrolytic cap.		
C5	N.M		
C6	1.8 nF ceramic cap		
C7	15 nF		
C8	2.2 nF Y1 capacitor		
C9, C14	ZL 1000 μ F 16 V electrolytic cap.		RUBYCON
C10	YXF 47 μ F 25 V electrolytic cap.	YXF 47 μ F 25 V	RUBYCON
C11	22 nF ceramic cap	22 nF	
C12	10 nF ceramic cap	10 nF	
D1	100 V small signal Schottky diode	BAT46	STMicroelectronics
D2	100 V small signal fast diode	1N4148	
D3	600 V 1 A ultra-fast diode	STTH1L06	STMicroelectronics
D4	Power Schottky diode	STPS745	STMicroelectronics
D5	250 V Transil	1.5KE250	STMicroelectronics
D6	18 V Zener		
F1	1 A Fuse		
HS1	Heat sink		
J7	Selector		
L1	3.3 μ H 3 A inductor		
NTC1	15 Ω		EPCOS
OPTO1	Opto-coupler	PC817	SHARP
R1	3.3 Ω resistor		
R3	33 k Ω 1% precision resistor		
R6	1 k Ω 1% precision resistor		
R8	120 k Ω 1% precision resistor		
R9	39 k Ω 1% precision resistor		
R10	270 k Ω		
R12	47 k Ω		
R13	1.5 k Ω		
R14	180 k Ω 1% precision resistor		
R15	3.3 Meg 1% precision resistor		
R16, R17	2.7 Meg 1% precision resistor		
R18	47 k Ω 1% precision resistor		
R19	220 Ω		
T1	Switch mode transformer	WE - 750871012	Würth Elektronik
T2	Common mode line filter	BU15-4530R4BL	Coilcraft
U1	Offline switching regulator	VIPER27HN	STMicroelectronics
VR1	Voltage reference	TS431	STMicroelectronics