

STEVAL-ISA012V1 BOM

Reference	Value	Description
CON1, CON2		Hartmann/ptr, 2 poles, type PK 7402, 380V _{AC} 16A
CON3		Hartmann/ptr, 3 poles, type PK 3503, 380V _{AC} 16A
C1	2.2nF/2kV	Cera-Mite Corporation 44LD22 Y1 Ceramic Capacitor 20%
C2, C3	220nF 630V	TDK C5750X7R2J224M SMD Ceramic Capacitor 20%
C4	2.2uF450V	Rubycon Aluminium Radial Lead Electrolytic Capacitor YK Series 29mA 20%
C5	330uF 25V	Rubycon Aluminium Radial Lead Electrolytic Capacitor ZL Series 56mR 995mA 20%
C6	22uF 16V	Rubycon Aluminium Radial Lead Electrolytic Capacitor ZA Series 270mR 350mA 20%
C7	2.2uF 50V	Panasonic ECA1HHG2R2 NHG-A Radial Lead Electrolytic Capacitor 18mA 20%
C8	10uF 50V	Panasonic ECA1HHG100 NHG-A Radial Lead Electrolytic Capacitor 39mA 20%
C9	100nF 50V	muRata GRM40X7R104Z50 SMD Ceramic Capacitor 20%
C10	47nF 50V	muRata GRM40X7R473Z50 SMD Ceramic Capacitor 20%
D1, D2	BRIDGE	General Instruments DF10S SMT Diode Bridge 1000V 1A
D3, D4	ZY180V	DO-41 Zener Diode 180V 2W 5%
D5	ZMM 15/SOD-80	Mini-Melf Zener Diode 15V 0.5W 5%
D6	TMBAT49	STMicroelectronics Small Signal Schottky Diode 80V 0.5A
D7	LL4148/SOD-80	SOD-80 General Purpose Rectifier 75V 200mA
L1	1mH	Epcos B78108-S1105J , Bobbin Core BC 130mA 13R 10%
L2	10uH	TDK GLF2012T100M SMD Signal-Use SMD Inductor 125mA 20%
NTC1	50E	UEI 10SP050L Inrush Current Suppressor 50R 2A 10%
Q1	STD3NK50Z	STMicroelectronics N-Channel Mosfet 500V 2.3A 3.3R
RF1, RF2, RF3, RF4	22E 0.75W	Yageo Resistor, wire wound, fusible, 22R 0.75W 5%
RV1, RV2, RV3	SO5K275/275V	Epcos B72650M271K72 SMD Varistor 275V _{AC} 8.6J
R1, R2, R3	330K SMD	Resistor, Metal Film 0.25W 5%
R4	10E SMD	Resistor, Metal Film 0.25W 5%
R5	220E SMD	Resistor, Metal Film 0.25W 5%
R6	1K SMD	Resistor, Metal Film 0.25W 5%
R7	4.7K SMD	Resistor, Metal Film 0.25W 5%
R8	4.7K SMD	Resistor, Metal Film 0.25W 5%
R9	5.6K SMD	Resistor, Metal Film 0.25W 5%

Reference	Value	Description
T1	2432.0015C	E13 TIW Pulse Eldor Switch Mode Transformer
U1	VIPer12AS	STMicroelectronics Off Line SMPS Primary IC 730V 0.4A 27R
U2	L4931ABD33	STMicroelectronics Very Low Drop Voltage Regulator 3.3V 300mA 1%
U3	TS2431	STMicroelectronics Programmable Shunt Voltage Reference 1%
U4	PC817	Sharp Optocoupler 5kV