

**STEVAL-ISA059V1** Bill of material

Reference	Value	Description	Manufacturer
U1	TSM108ID	PWM controller	STMicroelectronics
Q4	STS3DPFS30	Mosfet + diode	STMicroelectronics
L1	P0250.154T	150 $\mu$ H - buck main inductor	Pulse
L	short circuit	filtering inductor	
C1	220pF	oscillator capacitor	
C2-C3	22nF	compensation capacitors	
C4-C7	47 $\mu$ F-25V	buck input and output capacitors	Rubycon ZL
C10	100nF	voltage reference bias capacitor	
R8-R17-R18-R19	1 $\Omega$	shunt resistor	
R6-R7	22k $\Omega$ -10%	compensation resistors	
R9	15k $\Omega$ -1%	divider bridge upper resistor	
R10	11k $\Omega$ -1%	divider bridge lower resistor	
R16-R22	short circuit		