

STEVAL-ISA032V1 BOM

Reference	Part	Manufacturer	Description	Manuf.code
F1	FUSE 3.15A	ANY		
RT1	NTC 16 Ohm 3A	EPCOS	NTC	B57237S0100M000
C1, C2, C18	100nF 300Vac X2	EPCOS		B32922A2104M
C3	220uF-450V	EPCOS	ALUMINIUM ELCAP	B43505C5227M00
C4	4.7nF 1000V	ANY	HV CERCAP	
C5, C6	220uF-35V	RUBYCON - ZL	ALUMINIUM ELCAP	
C7	2.2nF-Y1	ANY	Y1 SAFETY CAP.	
C8	330nF - 50V	ANY	CERCAP	
C9	620pF-50V	ANY	CERCAP	
C10	3.3nF - 50V	ANY	CERCAP	
C11, C17	10pF-50V	ANY	CERCAP	
C12	100pF - 50V	ANY	CERCAP	
C13	1uF-50V	RUBYCON - YXF	ALUMINIUM ELCAP	
C14	22nF-50V	ANY	CERCAP	
C15	47uF-50V	RUBYCON - ZL	ALUMINIUM ELCAP	
C16	0.1uF-50V	RUBYCON - YXF	ALUMINIUM ELCAP	
C19	1nF - 50V	ANY	CERCAP	Not Mounted
R1	33KΩ 2W 5%	ANY		
R2, R3	47KΩ 1/4W 5%	ANY		
R4	2.2KΩ 1/4W 5%	ANY		
R5	33Ω 1/4W 5%	ANY		
R6, R11	1.5KΩ 1/4W 5%	ANY		
R7	3.9KΩ 1/4W 5%	ANY		
R8	0.56Ω 2.5W 1%	ANY		
R9	390Ω 1/4W 5%	ANY		
R10	680Ω 1/4W 5%	ANY		
R12	15KΩ 1/4W 5%	ANY		
R13	4.7KΩ 1/4W 5%	ANY		
R14	22Ω 1/4W 5%	ANY		
R15	1KΩ 1/4W 5%	ANY		
R16, R17	470KΩ 1/4W 5%	ANY		
R18	33KΩ 1/4W 5%	ANY		
R19	100Ω 1/2W 5%	ANY		Not Mounted
R20	100Ω 2W 5%	ANY		Not Mounted
D1	KBU6M	GENERAL SEMICONDUCTOR	BRIDGE RECTIFIER	
D2*	STPS30H100CW	ST	POWER SCHOTTKY RECT.	STPS30H100CW
D3, D5	1N4148	VISHAY	GEN. PURPOSE DIODE	
D4	STTH106	ST	FAST. REC. RECT.	STTH106
D6	BZX85C15	ANY	15V ZENER DIODE	BZX85C15V
Q1	STX715	ST	MEDIUM POWER NPN BJT	STX715
Q2*	STP10NK60Z	ST	POWER MOSFET	STP10NK60Z
Q3	BC547B	ANY	SMALL SIGNAL NPN BJT	BC547B
U1	PC817B	SHARP	OPTOCOUPLER	PC817B
U2	TL1431	ST	SHUNT REGULATOR	TL1431
U3	L5991	ST	PRIMARY CONTROLLER	L5991
T1	20mH	TDK	COMMON MODE CHOKE	HF2430-203Y1R0-T01
T2	TRANSFORMER SRW2630EG-XxxV016	TDK	TRANSFORMER	SRW2630EG-XxxV016
T3	10mH	TDK	COMMON MODE CHOKE	HF2430-103Y1R2-T01
L2	47uH 10A	COILCRAFT	POWER INDUCTOR	PCV-1-473-10L
HEAT-SINK	Rth ≤ 9.5°C/W		HEAT-SINK FOR TO220	ELCART-4/9625

* Mounted with a heat-sink, Rth ≤ 9.5°C/W