

STEVAL-ISA020V1

Item	Reference	Qty	Variant	Value	Description	Size	Manufacturer
1	C2,C1	2		4.7uF	capacitor, electrolytic KMG 400V 20% -40...+105°C	D10x16mm	Nippon Chemi-Con
2	C3	1		10uF	capacitor, electrolytic KME 50V 20% -55...+105°C	D5x11mm	Nippon Chemi-Con
3	C4	1		220uF	capacitor, electrolytic LXY 35V 825mA 0.085R 20% -55...+105°C	D10x16mm	Nippon Chemi-Con
4	C5,C13	2		10uF	capacitor, electrolytic KME 50V 20% -55...+105°C	D5x11mm	Nippon Chemi-Con
5	C6	1		100pF	capacitor, ceramic X7R 500V 10% -55...125°C	1206	
6	C8	1		22nF	capacitor, ceramic X7R 50V 10% -55...125°C	1206	
7	C9,C10	2		100nF	capacitor, ceramic X7R 50V 10% -55...125°C	1206	
8	C11	1		100nF	capacitor, ceramic X7R 50V 10% -55...125°C	0805	
9	C12	1		1nF	capacitor, ceramic, class Y1 WKP 500V 20% -40...+85°C	D10x6mm	Vishay Draloric
10	D1	1		S250	bridge rectifier 250VAC 0.5A -55...150°C	TO-269AA	Diotec
11	D3,D2	2		LL4148	diode 75V 200mA	MiniMELF	
12	D5	1		STPS160A	diode, schottky 60V 1A 150°C	SMA	ST
13	D7	1		LL4148 BAV103	diode 75V 200mA diode 250V 200mA	MiniMELF	
14	L1	1		330uH	inductor, bobbin core BC 190mA 6.4R 10% -55...125°C	D4x9.2mm	EPCOS
15	Q1	1		BC846B	transistor, bipolar NPN 65V 100mA 330mW 150°C	SOT-23	
16	R1	1		10R	resistor, wirewound, fusible, TK120 CRF 254-4 3W 5% -55...350°C	D12.6x6.0mm	Yageo
17	R3	1		100R	resistor, metal film 200V 0.25W 1%	1206	
18	R5	1		10R	resistor, metal film 100V 0.125W 1%	0805	
19	R8	2		220R	resistor, metal film 100V 0.125W 1%	0805	
20	R10,R9	2		1k	resistor, metal film 100V 0.125W 1%	0805	
21	R11	1		10k	resistor, metal film 100V 0.125W 1%	0805	
22	R12	1		8.2k	resistor, metal film 100V 0.125W 1%	0805	
23	R13	1		1.8k	resistor, metal film 100V 0.125W 1%	0805	
24	R14	1		820R	resistor, metal film 100V 0.125W 1%	0805	
25	R15	1		220R	resistor, metal film 100V 0.125W 1%	0805	
26	R16	1		0R	resistor, metal film	0805	
27	R18,R17	2		1R	resistor, metal film 200V 0.25W 1%	1206	
28	R20	1		22R	resistor, metal film 100V 0.125W 1%	0805	
29	R21	1		4.7k	resistor, metal film 200V 0.25W 1%	1206	
30	T1	1		T1B=17turns	transformer, ferrite Fi324 EF16 4.2kV 13% -40...+115°C	22.5x20.5x17.5mm	Vogt
31	U1	1		VIPer12AS	Offline SMPS Primary IC 730V 0.4A 27R -40...150°C	SO-8	ST
32	U2	1		TSM101CD	voltage and current controller 36V 200mW 2.5% -20...+80°C	SO-8	ST
33	U3	1		SFH617A-3	optocoupler, TRIOS 5.3kV	DIP-4W	Infineon