

STEVAL-ILL041V1 BOM

Item #	Designator	Comment	Description	Footprint	Quantity	Manufacturer	Vendor
1	BR1	Bridge 0.8A	1A DIP BRIDGE	RH0x	1	Diodes Inc HD06	Digikey HD06DICT-ND
2	C1, C7	220nF 250V	Capacitor	BOXSDLWH7.5-0.6-10.3-6-10.8	2	Panasonic ECQ-E2224KB	Digikey P10971-ND
3	C2	470uF 63V	Capacitor	CEH16x20mm	1	Panasonic EEU-FC1J471	Digikey P10352-ND
4	C5	0.1uF	Capacitor	0805	1	0805 X7R	
5	C6	1.0uF	Capacitor	0805	1	Murata GRM21BR71C105MA01L	Digikey 490-1692-1-ND
6	C8, C9, C12	22uF 25V	Capacitor	CEV5MMP	3	Panasonic EEA-FC1E220	Digikey FC Series P11213-ND
7	C11	2.2uF	Capacitor	0805	1	0805 Z5V	
8	C13	2.2nF	Capacitor	0805	1	0805 X7R	
9	D1	STTH1R04A	Diode	SMA	1	ST STTH1R04A	
10	D4, D8, D10	MMSD4148	Diode	SOD-123	3	Fairchild MMSD4148	Digikey MMSD4148-ND
11	F1	1A	Fuse	RES0.5	1	Littelfuse 0251001.MXL	Digikey F2313-ND
12	L1	Cramer E35882 Inductor		Shulin EF-20 bobbin	1	Cramer E35882 Inductor	
13	L2, L3	1mHy 0.5A	Inductor	INDUC9MMVERT	2	Würth 744 772 102	
14	Q2	STD5NM50	FET N-CHAN	D-PAK	1	ST STD5NM50	
15	R1, R7	47K	Resistor	1206	2	1206 5%	
16	R2	47	Resistor	0805	1	0805 5%	
17	R3, R6, R15	220K	Resistor	1206	3	1206 5%	
18	R5	47K	Resistor	0805	1	0805 5%	
19	R8, R9	10K	Resistor	1206	2	0805 5%	
20	R11	150K 1%	Resistor	0805	1	0805 1%	
21	R12	453K 1%	Resistor	0805	1	0805 1%	
22	R13	0 Ohm Jumper	Resistor	0805	1	0805 000	
23	R14	681K 1%	Resistor	0805	1	0805 1%	
24	R16	200	Resistor	0805	1	0805 5%	
25	R17	20.0K 1%	Resistor	0805	1	0805 1%	
26	R18	25.2K 1%	Resistor	0805	1	0805 1%	
27	R19	10K 1%	Resistor	0805	1	0805 1%	
28	R20	10K	Resistor	0805	1	0805 1%	
29	R21	1.40K 1%	Resistor	0805	1	0805 1%	
30	R22	0.681 1%	Resistor	0805	1	0805 1%	
31	R23	100K	Resistor	0805	1	0805 5%	
32	R25	180K	Resistor	0805	1	0805 5%	
33	U1	L6564	Transition Mode PFC Controller	SSOP10	1	ST L6564	
34	U2	TS321AILT	Low power opamp in SOT23-5L	SOT-23-5L	1	ST TS321AILT	Digikey 497-8093-1-ND