

Bill of materials

Table 1. STEVAL-SPSA068 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	33nF	SMD Multilayer Ceramic Cap. Automotive	MURATA	GCM219R72A333KA37D
2	1	C2	47uF	SMD Electrolytic Cap. Automotive	PANASONIC	EEE-HA1J470UP
3	2	C3, C5	47uF	SMD Multilayer Ceramic Cap.	TDK	CKG57NX7R1H476M500JH
4	1	C14	DNM	SMD Multilayer Ceramic Cap.	TDK	CKG57NX7R1H476M500JH
5	2	C4, C6	100nF	SMD Multilayer Ceramic Cap. Automotive	MURATA	GCM21BR72A104KA37L
6	4	C7, C8, C9, C10	10uF	SMD Multilayer Ceramic Cap.	MURATA	GRM21BC71E106ME11L
7	1	C11	10uF_DNM	SMD Multilayer Ceramic Cap. Automotive	TDK	CGA5L1X7R1E106K160AC
8	1	C12	1nF	SMD Multilayer Ceramic Cap.	KEMET	C0603C102K5RAC7867
9	1	C13	220nF	SMD Multilayer Ceramic Cap. Automotive	MURATA	GCM188R71H224KA64D
10	1	CN1	BOC 2MM HOR BLUE	Terminal Bushing 2mm Blue horiz for pcb	Cinch Connectivity Solutions	105-0760-001
11	1	CN2	BOC 2MM HOR GR	Terminal Bushing 2mm Green horiz for pcb	Cinch Connectivity Solutions	105-0754-001
12	1	CN3	BOC 2MM HOR OR	Terminal Bushing 2mm Orange horiz for pcb	Cinch Connectivity Solutions	105-0756-001
13	1	CN4	BOC 2MM HOR BL	Terminal Bushing 2mm Black horiz for pcb	Hirschmann	930224100
14	2	D1, D2	STPS360AF, SOD128 Flat	SMD Power Schottky Rectifier	ST	STPS360AF
15	5	H1, H2, H3, H4, H5	STRIP3 POLES	Male Strip, Single row, 3 poles, p=2,54mm - See Mech Parts - FLAG MOUNTED	HARWIN	M20-9990345
16	1	J1	SMD Jumper	Jumper_SMD MEDIUM - CLOSE with SOLDER DROP	ANY	ANY
17	3	J2, J3, J4	SMD Jumper	Jumper_SMD MEDIUM - Leave OPEN	ANY	ANY
18	2	J5, J6	6.91322E+11	Terminal box 4 poles male 90° Pitch 3,81mm (See Mech Part)	WURTH ELEKTRONIK	6.91322E+11
19	1	J7	6.91322E+11	Terminal box 2 poles male 90° Pitch 3,81mm (See Mech Part)	WURTH ELEKTRONIK	6.91322E+11
20	1	JP1	STRIP2 POLES	Male Strip, Single row, 2 poles, p=2,54mm - See Mech Parts - CLOSED	HARWIN	M20-9990245
21	1	L1	15uH	SMD Power Inductor	Sumida	CDRH3D28NP-150NC
22	1	L2	15uH	SMD Power Inductor	MURATA	DFEH7030D-150M=P3

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23	1	L3B	10uH	SMD Shielded Power Inductors - Automotive	WURTH ELEKTRONIK	74477110
24	1	NUCLEO_EXT	SAMTEC SSW-107-01-T-D	Female Strip SAMTEC SSW, Dual row, vertical	SAMTEC	SSW-107-01-T-D
25	1	NUCLEO_EXT	SAMTEC SSW-111-01-T-D	Female Strip SAMTEC SSW, Dual row, vertical	SAMTEC	SSW-111-01-T-D
26	1	NUCLEO_EXT	SAMTEC SSW-119-01-T-D	Female Strip SAMTEC SSW, Dual row, vertical	SAMTEC	SSW-119-01-T-D
27	1	P1	STRIP6PM	Male Strip 6 pins pitch 2.54 180°	HARWIN	M20-9990645
28	1	R1	3K3_DNM	SMD Resistor	ANY	ANY
29	6	R2, R3, R4, R5, R6, R7	3K3	SMD Resistor	YAGEO	RC0603FR-073K3L
30	6	R8, R9, R10, R11, R12, R13	0R	SMD Resistor	YAGEO	RC0603JR-070RL
31	6	TP1, TP2, TP3, TP4, TP5, TP_GND	TP	PCB ring test point - Black (drill 1.0mm) without plastic spacer	VERO	20-2137
32	1	DC-DC Converter, QFN-32L WF	SPSA068	DC-DC Converter, Buck regulator	ST	SPSA068-TR

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