

Bill of materials
Table 1. STEVAL-A6983NV1 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	6	C1, C3, C4, C12, C13, C14	10 μ F 50V, 1206 (3216 metric), 50 V, 10 %	X7R ceramic capacitor	TDK	CGA5L1X7R1H106K160AC
2	3	C2A,C2B, C16	1 μ F 50V, 0805(2012 metric), 50 V, 0.2 %	X7R ceramic capacitor	TDK	CGA4J3X7R1H105M125AB
3	1	C5	22 μ F 25V, 1210(2225 metric), 50 V, 0.2 %	X7R ceramic capacitor	TDK	CGA6P3X7R1E226M250AB
4	1	C6	100nF 50V, 0603(1608 metric), 50 V, 10 %	X7R ceramic capacitor	TDK	CGA3E2X7R1H104K080AA
5	2	C7,C11	1 μ F 16V, 0603(1608 metric), 16 V, 10 %	X7R ceramic capacitor	TDK	CGA3E1X7R1C105K080AC
6	3	C8, C9, C17 Not Mounted	0603(1608 metric)			
7	1	C15	100 μ F 50V, 10x10mm, 50 V, 0.2 %	Electrolytic Capacitors	Panasonic	EEHZA1H101P
8	1	L1A	15 μ H 60V, XAL6060, 60 V, 0.2 %	Shielded power inductors	Coilcraft	XAL6060-153ME_
9	1	L1B Not Mounted	MSS1048	L1B	-	-
10	2	L2	6.8 μ H 60V, XAL4030, 60 V, 0.2 %	Shielded power inductors	Coilcraft	XAL4030-682ME_
11	1	L3	-	Ferrite bead	TDK	MPZ2012S221ATD25
12	1	R1	220 Ω at 100KHz, 0603(1608 metric), 0.01 %	Resistor	ROHM	MCR006YZPF1002
13	4	R2, R6, R9, R11 Not Mounted	0603(1608 metric)	Resistors	-	-
14	1	R3	402K Ω , 0603(1608 metric), 0.01 %	Resistor	PANASONIC	ERJ1GNF4023C
15	1	R4	82K Ω , 0603(1608 metric), 0.01 %	Resistor	MULTICOMP PRO	MCRE000186
16	3	R5, R8, R12	0 Ω , 0603(1608 metric), 0.01 %	Resistor	MULTICOMP PRO	MCRE000086
17	1	R7	1M Ω , 0603(1608 metric), 0.01 %	Resistor	PANASONIC	ERJ-U01F1004C

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
18	1	R13	10 Ω , 0603(1608 metric), 0.01 %	Resistor	PANASONIC	ERJ-U01F10R0C
19	4	TP1, TP2, TP3, TP4,	Single Male Header, 1mm	Test points	ETTINGER	13.14.145
21	1	U1	A6983NQTR, 38 V, 3 A	DC-DC converter buck regulator	ST	A6983NQTR

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