

**Bill of materials**
**Table 1. STEVAL-QUADV01 bill of materials**

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
1	1	C1	10uF, 1206, 50 V	Input capacitor	TDK	C3216X7R1H106K160AC
2	1	C2	1uF, 0805, 50 V	Input capacitor	TDK	CGA4J3X7R1H105K125AB
3	1	C3	1uF, 0603, 10 V	VCC capacitor	TDK	C1608X7R1A105K080AC
4	1	C4	100nF, 0603, 50 V	Bootstrap capacitor	KEMET	C0603C104K5RAC3121
5	1	C5 DNM	10pF, 0603, 50 V	Feedforward capacitor	Kyocera	06035C100KAT2A
6	1	C6	22uF, 1210, 25 V	Output capacitor	Murata	GRJ32EC71E226KE11
7	1	C7	10uF, 1206, 25 V	Output capacitor	TDK	C3216X7R1E106K160AE
8	1	R1	100k	EN resistor	Panasonic	ERJ-3EKF1002V (DNM for STEVAL\$QUADV01A, Mounted for STEVAL\$QUADV01B)
9	1	R2	330k, 0603	FB HS resistor	Panasonic	ERJ-3EKF3303V
10	1	R3	68k, 0603	FB LS resistor	Panasonic	ERJ-3EKF6802V
11	1	L1	22uH, 5030	Inductor	Coilcraft	XGL5030-223
12	1	U1	L6981CDR, SO8, 1.5 A	38 V, 1.5 A synchronous step- down converter with low quiescent current	ST	<a href="#">L6981CDR</a>
13	1	P6	6x1, through hole, 2.54mm pitch, HDR1X6	Male SIL connector	Harwin	M20-9990645
14	2	C8, C12	10uF, 1206, 100 V	Input capacitor	TDK	C3216X7R2A105K
15	1	C9	470nF, 0603, 10 V	VCC capacitor	TDK	C1608X7R1A105K080AC
16	1	C10	100nF, 0603	Vbias capacitor	TDK	C0603C104K5RAC3121
17	1	C11 DNM	10pF, 0603	Feedforward capacitor	Kyocera	06035C100KAT2A
18	1	R4	5.6k, 0603	Upper FSW resistor	Panasonic	ERJ-3EKF5601V
19	1	R5 DNM	100k, 0603	Lower FSW resistor	Panasonic	ERJ-3EKF5601V
20	1	R6, R8	100k, 0603	EN resistor, LCM resistor	Panasonic	ERJ-3EKF5601V (DNM for STEVAL\$QUADV01A, Mounted for STEVAL\$QUADV01B)
21	1	R7 DNM	10k, 0603	LNm Resistor	Panasonic	ERJ-3EKF1002V
22	1	R9	330k, 0603	FB HS resistor	Panasonic	ERJ-3EKF3303V
23	1	R10	68k, 0603	FB LS resistor	Panasonic	ERJ-3EKF6802V
24	1	L2	22uH, 4040	Inductor	Coilcraft	MSS5131H-473

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
25	1	U2	L7983, DFN 3X3X0.8 10L PITCH 0.5	60 V 300 mA synchronous step- down switching regulator with 10 $\mu$ A quiescent current	ST	L7983PUR
26	1	P8	6x1, through hole, 2.54mm pitch, HDR1X6	Male SIL connector	Harwin	M20-9990645
27	4	C15, C16, C17, C18	10uF, 0603, 16 V	Input, Output and aux capacitor	TDK	C1608X5R1C106M080AB
28	1	L3	2,2uH, 0603	Inductor	Coilcraft	XFL2010-222
29	1	R20	100k, 0603	EN resistor	Panasonic	ERJ-3EKF1002V (DNM for STEVAL\$QUADV01A, Mounted for STEVAL\$QUADV01B)
30	1	R21	10k, 0603	AUX resistor	Panasonic	ERJ-3EKF1002V
31	1	U4	ST1PS03AQTR, MLPQ/QFN 1.7x2.0x0.55 12L P0.4	DC-DC regulator, ST1PS03	ST	ST1PS03AQTR
32	1	P4	5x1, through hole, 2.54mm pitch, HDR1X5	Male SIL connector	Harwin	M20-9990645
33	3	P1, P2, P3	3x1, thorough hole, 2.54mm pitch, HDR1X3	Male SIL connector	Harwin	M20-9990645
34	2	C13, C14	1uF, 0805, 50 V	Input, Output capacitor	TDK	C2012X7R1H105K125AB
35	1	R11	100k, 0603	Enable resistor	Panasonic	ERJ-3EKF1002V (DNM for STEVAL\$QUADV01A, Mounted for STEVAL\$QUADV01B)
36	1	R12	150k, 0603	FB HS resistor	Panasonic	ERJ-3EKF1503V
37	1	R13	47k, 0603	FB LS resistor	Panasonic	ERJ-3EKF4702V
38	1	U3	ST730, SOT23-5L, 0.3 A	Low dropout regulator	ST	ST730MR
39	1	P9	6x1, through hole, 2.54mm, HDR1X6,	Male SIL connector	Harwin	M20-9990645

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