

Bill of materials
Table 1. STEVAL-25R300KA bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	1	-	Table 2. STEVAL-M25B1 bill of materials	-	ST	Not available for separate sale
2	1	-	Table 3. STEVAL-D25R300A bill of materials	-	ST	Not available for separate sale

Table 2. STEVAL-M25B1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	5C1, C10, C13, C17, C56		1uF	CAPACITOR 1uF 25V 10% X5R 0603	TDK	C1608X5R1E105K080AC
					Wurth Elektronik ⁽¹⁾	885012206076
2	1	C2	2.2uF	CAPACITOR 2.2uF 16V 10% X7R 1206	KEMET	C1206C225K4RACTM
					Wurth Elektronik ⁽¹⁾	885012208038
3	1	C3	10nF	CAPACITOR 10nF 16V 10% X7R 0402	KEMET	C0402T103K4RALTU
					Wurth Elektronik ⁽¹⁾	885012205031
4	29	C4, C5, C6, C7, C8, C11, C12, C14, C15, C16, C19, C22, C23, C24, C25, C26, C27, C28, C31, C35, C36, C42, C43, C44, C45, C46, C47, C50, C51	100nF	CAPACITOR 100nF 16V 10% X7R 0402	Samsung	CL05B104KO54PNC
					Wurth Elektronik ⁽¹⁾	885012205037
5	5	C9, C48, C49, C54, C55	10uF	CAPACITOR 10uF 25V 10% X5R 0603	Murata	GRM188R61E106KA73J
					Wurth Elektronik ⁽¹⁾	885012106031
6	2	C18, C33	4.7nF	CAPACITOR 4.7nF 50V 10% X7R 0402	Murata	GRM155R71H472KA01D
					Wurth Elektronik ⁽¹⁾	885012205065
7	4	C20, C21, C30, C32	10pF	CAPACITOR 10pF 50V 5% NPO 0402	KEMET	C0402C100J5GALTU
					Wurth Elektronik ⁽¹⁾	885012005055
8	1	C29	20pF	CAPACITOR 20pF 0402 NOT FITTED	N/A	N/A
9	1	C34	4.7uF	CAPACITOR 4.7uF 25V 10% X5R 0603	TDK	C1608X5R1E475K080AC
10	2	C52, C53	4.7pF	CAPACITOR 4.7pF +/-0.25pF 50V NPO 0402	Yageo	CC0402CRNPO9BN4R7

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
10	2	C52, C53	4.7pF	CAPACITOR 4.7pF +/-0.25pF 50V NPO 0402	Würth Elektronik ⁽¹⁾	885392005012
11	1	CAP1		Châssis de commutateur / capuchons de commutateur Tact Switch	APEM	AKTSC62B
12	1	CAP2		Châssis de commutateur / capuchons de commutateur Tact Switch	APEM	AKTSC62K
13	5	D1, D2, D3, D4, D5		DIODE BAT60JFILM	STMicroelectronics	BAT60JFILM
14	1	J1 (optional)		Conenctor USB 2.0 Type C Horizontal SMT	Würth Electronics	629722000214
15	1	J2		MINI USB B 5075BMR-05-SM	Samtec	MUSB-05-F-B-SM-A
16	1	J4		CONNECTOR SSW-114-02-G-S-RA	Samtec	SSW-114-02-G-S-RA
17	2	J5, J6		CONNECTOR SSW-105-02-G-S-RA	Samtec	SSW-105-02-G-S-RA
18	6	JP1, JP2, JP3, JP10, JP13, JP15		CONNECTOR TSW-102-07-G-S 1x2Pts	Samtec	TSW-102-07-G-S
19	2	JP4, JP14		CONNECTOR TSW-104-07-G-S 1x4Pts	Samtec	TSW-104-07-G-S
20	4	JP6, JP7, JP8, JP9		CONNECTOR TSW-101-07-G-S 1Pt	Samtec	TSW-101-07-G-S
21	1	JP11		CONNECTOR TSW-104-07-G-D 2x4Pts	Samtec	TSW-104-07-G-D
22	1	JP12		CONNECTOR CES-107-01-L-D	Samtec	CES-107-01-L-D
23	1	JP16		CONNECTOR TSW-103-07-G-S 1x3Pts	Samtec	TSW-103-07-G-S
24	2	L1, L3	600 Ohms	EMI FERRITE BEAD 600 Ohms 742792042	Würth Electronics	742792042
25	3	L2, L6, L8	90 Ohms	COMMON MODE FILTER 744232090	Würth Electronics	744232090
26	2	L4, L7	300 Ohms	EMI FERRITE BEAD 300 Ohms 742792641	Würth Electronics	742792641
27	1	L5	600 Ohms	FERRITE CHIP BEAD FCM1608KF-601T03	Tai Tech	FCM1608KF-601T03
28	1	L9	470 Ohms	SELF BLM18EG471SN1D	Murata	BLM18EG471SN1D
29	1	LCD1		LCD MODULE FRD240C48004-A-RT	FRIDA	FRD240C48004-A-RT

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
30	1	LD1		LED GREEN 19-21SYGC/S530- E1/TR8	Dialight	598-8060-107F
					Würth Elektronik ⁽¹⁾	150060VS75000
31	1	LD2		LED YELLOW TLMY1000-GS08	Vishay Semiconductors	VLMY1300-GS08
32	1	LD3		LED ORANGE 19-217/S2C- AM2N2VY/3T	Vishay Lite-On	LTST-C191KFKT
33	1	LD4		LED BICOLOR HSMF- A201-A00J1	Broadcom Avago	HSMF-A201-A00J1
34	5	PEG1, PEG2, PEG3, PEG4, PEG5		SELF ADHESIVE RUBBER BUMPER SJ5306	3M	SJ-5306CLEAR
35	1	Q1		Bipolar Transistors - BJT NPN 40Vcbo 25Vceo 5Vebo 500mA 300mW	MCC	MMS9013L-TP
36	1	Q2		Transistor STR2P3LLH6, SOT23	ST	STR2P3LLH6
37	26	R1, R3, R9, R12, R13, R14, R15, R20, R21, R23, R27, R41, R42, R46, R47, R49, R50, R53, R54, R56, R71, R72, R77, R78, R104, R113	0R	RESISTOR 0R 0402	Vishay	CRCW04020000Z0ED
					Würth Elektronik ⁽¹⁾	560112110001
38	2	R2, R110	510R	RESISTOR 510R 1% 0402	Vishay	CRCW0402510RFKED
39	17	R4, R25, R33, R39, R43, R48, R51, R52, R62, R65, R67, R70, R74, R75, R97, R109, R122		RESISTOR 0402 NOT FITTED	N/A	N/A
40	5	R5, R7, R36, R37, R103	10R	RESISTOR 10R 1% 0402	Vishay	CRCW040210R0FKED
					Würth Elektronik ⁽¹⁾	560112110034
41	1	R6	47R	RESISTOR 47R 1% 0402	Yageo	RC0402FR-0747RL
42	2	R8, R79	5K1	RESISTOR 5K1 1% 0402	Vishay	CRCW04025K10FKTD
43	2	R10, R38	1M	RESISTOR 1M 1% 0402	Vishay	CRCW04021M00FKED
					Würth Elektronik ⁽¹⁾	560112110033
44	1	R11	360R	RESISTOR 360R 1% 0402	Yageo	RC0402FR-07360RL
45	4	R16, R105, R106, R114	1K5	RESISTOR 1K5 1% 0402	Vishay	CRCW04021K50FKED
					Würth Elektronik ⁽¹⁾	560112110095
46	2	R107, R108	1K5	RESISTOR 1K5 1% 0402	Vishay	CRCW04021K50FKED
					Würth Elektronik ⁽¹⁾	560112110095

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
47	1	R17	680R	RESISTOR 680R 1% 0402	Vishay	CRCW0402680RFKED
48	13	R18, R24, R26, R63, R64, R66, R68, R69, R73, R76, R81, R82, R112	4K7	RESISTOR 4K7 1% 0402	Yageo	RC0402FR-134K7L
					Würth Elektronik ⁽¹⁾	560112110245
49	4	R19, R28, R30, R117	100R	RESISTOR 100R 1% 0402	Vishay Dale	CRCW0402100RFKED
					Würth Elektronik ⁽¹⁾	560112110022
50	1	R22	4R3	RESISTOR 4.3 Ohms 1% 0402	Vishay Dale	CRCW04024R30FKED
51	1	R29	100R	RESISTOR 100R 0402 NOT FITTED	N/A	N/A
52	4	R31, R32, R35, R55	100K	RESISTOR 100K 1% 0402	Vishay	CRCW0402100KFKED
					Würth Elektronik ⁽¹⁾	560112110019
53	7	R34, R98, R99, R100, R101, R102, R115	10K	RESISTOR 10K 1% 0402	Vishay Dale	CRCW040210K0FKEDHP
54	5	R40, R118, R119, R120, R121	0R	RESISTOR 0R 0402 NOT FITTED	N/A	N/A
55	1	R44	47K	RESISTOR 47K 1% 0402	Vishay	CRCW040247K0FKED
					Würth Elektronik ⁽¹⁾	560112110055
56	1	R45	15K	RESISTOR 15K 1% 0402	Vishay Dale	CRCW040215K0FKEDHP
57	5	R57, R58, R59, R60, R61	220R	RESISTOR 220R 1% 0402	Vishay	CRCW0402220RFKED
					Würth Elektronik ⁽¹⁾	560112110047
58	1	R111	2K7	RESISTOR 2K7 1% 0402	Vishay	CRCW04022K70FKED
					Würth Elektronik ⁽¹⁾	560112110266
59	1	R116	36K	RESISTOR 36K 1% 0402	Vishay	CRCW040236K0FKED
					Würth Elektronik ⁽¹⁾	560112110157
60	6	SB1, SB2, SB3, SB7, SB8, SB10		SOLDER BRIDGE OPEN SIZE 0603	N/A	N/A
61	8	SB4, SB5, SB6, SB9, SB11, SB12, SB13, SB14		SOLDER BRIDGE CLOSED SIZE 0603		
62	2	SW1, SW2		Interrupteurs de contact SW TACT SPST 0.05A 12VDC 6MM	APEM	ADTSM644KV
63	1	SW4		JOYSTICK MT-008A	SparkFun	COM-10063
64	5	TP1, TP2, TP3, TP4, TP5		PLATED HOLE DIAM. 1.0mm	Keystone Electronics	5001
65	17	TP6, TP7, TP8, TP9, TP10, TP11,		TESTPOINT COPPER LAND DIAM. 0.8mm	Multicomp	TEST-12

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
		TP12, TP13, TP14, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP26				
66	1	U1		REGUL LDO LD39050PUR, DFN6 3x3	ST	LD39050PUR
67	1	U2		IC STM32L476VGT6 LQFP100	ST	STM32L476VGT6
68	1	U3		DIGITAL POT AD5112BCPZ10	Analog Devices	AD5112BCPZ10-500R7
69	1	U4		LEVEL SHIFTER SN74LVC2T45DCUT VSSOP8	Texas Instruments	SN74LVC2T45DCUT
70	1	U5		IC STM32F103CBT6, LQFP48	ST	STM32F103CBT6
71	1	U6		IC SCREEN CNTRL 12BIT 16LFCSP	Analog Devices	AD7879-1ACPZ-500R7
72	2	Y1, Y2		SMD CRYSTAL NX3225GD-8MHZ- EXS00A-CG04874	NDK	NX3225GD-8MHZ-STD- CRA-3
73	1	Y3		SMD CRYSTAL NX3215SA 32.768KHZ	NDK	NX3215SA-32.768K-STD- MUA-8
					Würth Elektronik ⁽¹⁾	830009678
74	6	Z1, Z2, Z3, Z4, Z5, Z6		Carte de CI WR-PHD 2.54mm Jumper with Test Point	Würth Elektronik	60900213421

1. Alternative manufacturer.

Table 3. STEVAL-D25R300A bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	U200	ST25R300-AQET, UFQFPN 32		ST	ST25R300-AQET
2	1	X100			Würth Elektronik	435151014845
3	1	S100			C & K COMPONENTS	PCM12SMTR
4	1	Y200			NDK	CS01188-27.12M
5	2	C303, C323	68pF	68pF ±1% 50V C0G, NP0 0402	Murata	GRT1555C1H680FA02J
6	2	LED100, LED101			Lite-On	LTST-C190KGKT
					Würth Elektronik ⁽¹⁾	150060VS75000
7	4	R200, R201, R302, R303		210 ohm, 50 V, 0402, >100 mW, ± 1%	MULTICOMP	MC00625W040210R
8	7	R202, R203, R204, R205, R206, R207, R208	210 Ohm	210 ohm, 50 V, 0402, >100 mW, ± 1%	MULTICOMP	MC00625W040210R
9	1	R100, R102	1 kohm	1 kohm, 50 V, 0402, >100 mW, ± 5%	Panasonic	ERJ2GEJ102X

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9	1	R100, R102	1 kohm	1 kohm, 50 V, 0402, >100 mW, $\pm 5\%$	Würth Elektronik ⁽¹⁾	560112110012
10	2	R300, R301	2.2 Ohm	2.2 Ohm $\pm 1\%$ 0.1W, 1/10W Chip Resistor 0603	Vishay Dale	CRCW06032R20FKEA
					Würth Elektronik ⁽¹⁾	560112116088
11	2	C310, C314	39pF	39pF $\pm 1\%$ 50V C0G, NPO 0603	KEMET	C0603C390F5GACTU
12	2	C305, C317	82pF	82pF $\pm 1\%$ 50V C0G, NPO 0402	YAGEO	CC0402FRNPO9BN820
13	2	C308, C315	82pF	82pF $\pm 1\%$ 50V C0G, NPO 0603	KEMET	C0603C820F5GACTU
14	2	C309, C313	120pF	120pF $\pm 1\%$ 50V C0G, NPO 0603	KEMET	C0603C121F5GACAUTO
16	1	R103	330 kohm	330 kohm, 50 V, 0402, >62.5 mW, $\pm 1\%$	VISHAY	CRCW0402330KFKED
					Würth Elektronik ⁽¹⁾	560112110088
17	1	R104	18 kohm	18 kohm, 50V, 0402, >62.5 mW, $\pm 1\%$	MULTICOMP	MCWR04X1802FTL
18	2	C311, C312	390pF	390pF $\pm 1\%$ 50V C0G, NPO 0603	KEMET	C0603C391F5GACTU
19	5	C201, C213, C214, C215, C216	0.01 μ F	0402, 0.01 μ F, 25 V, $\pm 10\%$, X7R	AVX	04023C103KAT2A
					Würth Elektronik ⁽¹⁾	885012205050
20	2	C200, C210	1 μ F	0402, 1 μ F, 16 V, $\pm 10\%$, X5R,	MURATA	GRM155R61C105KA12D
21	4	C202, C207, C208, C209	2.2 μ F	0402, 2.2 μ F, 6.3 V, $\pm 20\%$, X5R	MURATA	GRM155R60J225ME01D
					Würth Elektronik ⁽¹⁾	885012105013
22	2	C307, C316	470pF	470pF $\pm 1\%$ 50V C0G 0402	Murata	GRT1555C1H471FA02D
23	1	R101	680 Ohm	680 Ohm $\pm 5\%$ 0.063W, 1/16W Chip Resistor 0402	Yageo	RC0402JR-07680RL
					Würth Elektronik ⁽¹⁾	560112110024
24	2	C300, C320	6.8pF	AEC-Q200 6.8pF ± 0.1 pF 50V C0G 0402	MURATA	GCM1555C1H6R8BA16D
					Würth Elektronik ⁽¹⁾	885392005074
25	2	C306, C318	10pF	AEC-Q200 10pF $\pm 1\%$ 50V C0G 0402	MURATA	GCM1555C1H100FA16D
26	2	C204, C205	12pF	AEC-Q200 12pF $\pm 1\%$ 50V C0G 0402	MURATA	GCM1555C1H120FA16D
27	2	C301, C321	12pF	AEC-Q200 12pF $\pm 1\%$ 50V C0G 0402	MURATA	GCM1555C1H120FA16D
28	2	C302, C322	27pF	AEC-Q200 27pF $\pm 1\%$ 50V C0G 0402	MURATA	GCM1555C1H270FA16D
29	1	C211	47nF	AEC-Q200 47nF $\pm 10\%$ 10V 0402	MURATA	GCM155R71E473KA55D
					Würth Elektronik ⁽¹⁾	885012205054

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30	2	C101, C203	100nF	AEC-Q200 100nF ±10% 50V 0402	MURATA	GCM155R71H104KE02J
					Würth Elektronik ⁽¹⁾	885012205086
31	2	C304, C319	150pF	AEC-Q200 150pF ±1% 50V COG 0402	MURATA	GCM1555C1H151FA16D
32	1	J101			Samtec	TSW-114-08-G-S-NA
33	2	J100, J102			Samtec	TSW-105-08-G-S-NA
34	4	P100, P101, P102, P103			3M	SJ-5306 CLEAR
35	2	L300, L301	120nH		Murata	LQW18CNR12J0ZD
36	8	Q300, Q301, Q302, Q303, Q304, Q305, Q306, Q307			Diodes Incorporated	BSS123WQ-7-F
37	1	L200	120 Ohm		muRata	BLM15EG121SH1D
38	2	P200, P201			HIROSE(HRS)	U.FL-R-SMT-1(10)
					Würth Elektronik ⁽¹⁾	636101111001

1. Alternative manufacturer.

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