

## Bill of materials

**Table 1. STEVAL-25R200SA bill of materials**

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	A	Table 2. STEVAL-25R200A	NFC/RFID reader board based on the ST25R200 IC	ST	Not available for separate sale
2	1	B	STEVAL-FANTR1A	C7 12x12 Flex Antenna	ST	Not available for separate sale
3	1	C	ST25TN01K-AFG5	Adhesive Tag for ST25TN Provided by CS	ST	Not available for separate sale
4	1	D	ST25TV512C-AFG9	Adhesive Tag for ST25TV Provided by CS	ST	Not available for separate sale
5	1	E	ST25R200-UQFN24_4X4_0.5	SAMPLE OF ST25R200 in piece of reel	ST	Not available for separate sale
6	1	F	FIRMWARE	FIRMWARE of testing for STEVAL-R200	ST	Not available for separate sale

**Table 2. STEVAL-25R200A bill of materials**

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C1	4.7nF, 0402, 25V, +/-10%	Capacitor 0402 4.7nF 25V 10% X7R	MURATA	GRM155R71A473KA01D
2	13	C2, C3, C4, C5, C6, C7, C10, C15, C18, C41, C42, C43, C51	100nF, 0201, 10V, +/-10%	Capacitor 0201 100nF 10 V X7S 10%	MURATA	GRM033C71A104KE14D
3	1	C8	100pF, 0402, 50V, +/- 5%	Capacitor 0402 100pF 50V 5% COG	MURATA	GCM1555C1H101JA16J
4	4	C9, C11, C37, C44	10pF, 0201, 50V, +/-1%	Capacitor 0201 10pF 25V C0G	MURATA	GCM0335C1H100FA16J
5	5	C12, C32, C33, C40, C53	4.7uF, 0402, 10V, +/-20 %	Cap GRM155R61A475MEAA 4.7uF 10V 0402 20%	MURATA	GRM155R61A475MEAAD
6	5	C13, C27, C28, C67, C76	150pF, 0603, 50V, +/- 2%	Capacitor 0603 150pF 50V 2% COG	MURATA	GRM1885C1H151GA01D
7	7	C14, C26, C29, C68, C71, C72, C75	10pF, 0603, 50V, +/-2%	Capacitor 0603 10pF 50V 5% C0G	MURATA	GRM1885C1H100GA01D
8	4	C16, C25, C69, C74	33pF, 0603, 50V, +/- 2%	Capacitor 0603 33pF 50V 2% COG	MURATA	GRM1885C1H330GA01J
9	4	C17, C19, C35, C79	1uF, 0201, 10V, +/-20%	Cap GRM033R61A105ME15J 1uF 10V X5R 20% 0201	MURATA	GRM033R61A105ME15J
10	7	C20, C36, C38,	10nF, 0201, 25V, +/-10%	Cap GRM033R61E103KA12D 10nF 0201 10% 25V	MURATA	GRM033R61E103KA12D

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
		C45, C47, C49, C52				
11	2	C21, C24	240pF, 0603, 50V, +/- 2%	Capacitor 0603 240pF 50V C0G 2%	MURATA	GRM1885C1H241GA01J
12	2	C22, C23	18pF, 0603, 50V, +/- 2%	Capacitor 0603 18pF 50V 2% COG	MURATA	GQM1875C2E180FB12D
13	1	C30	270pF, 0603, 50V, +/-2%	Capacitor 0603 270pF 50V 2% COG	MURATA	GCM1885C2A271GA16J
14	1	C31	22pF, 0603, 50V, +/-2%	Capacitor 0603 22pF 50V 2% COG	MURATA	GCM1885C2A220FA16D
15	1	C34	10uF, 0402, 10V, +/-20%	Cap GRM155R61A106ME44D 10uF 10V X5R 0402	MURATA	GRM155R61A106ME11D
16	4	C39, C46, C48, C50	2.2uF, 0201, 10V, +/-10%	Capacitor GRM033R61A225ME47 2.2uF 10V 0201	MURATA	GRM033R61A225KE47J
17	2	C54, C65	150pF, 0402, 50V, +/-2%	Capacitor 0402 150pF 50V 2% COG	MURATA	GRM1555C2A151GE01J
18	2	C55, C64	10pF, 0402, 25V, +/- 5%	Capacitor 0402 10pF 25V 5% NPO	MURATA	GCM1555C1H100GA16D
19	2	C56, C63	33pF, 0402, 50V, +/-1%	Capacitor 0402 33pF 50V 1% COG	MURATA	GRM1555C1H330FA01D
20	4	C57, C60	180pF, 0402, 50V, +/- 1%	Capacitor 0402 180pF 50V 1% COG	MURATA	GCM1555C1H181FA16J
21	4	C58, C62	240pF, 0402, 50V, +/- 1%	Capacitor 0402 240pF 50V 1% COG	MURATA	GCM1555C1H241FA16D
22	2	C59, C61	10pF, 0402, 50V, +/-2%	Capacitor 0402 10pF 50V 2% COG	MURATA	GCM1555C1H100GA16D
23	1	C66	0603	Capacitor 0603 (not mounted)	N/A	N/A
24	2	C70, C73	360pF, 0603, 50V, +/- 2%	Capacitor 0603 360pF 50V C0G 2%	MURATA	GRM1885C1H361GA01D
25	1	C77	33pF, 0402, 50V, +/- 2%	Capacitor 0402 33pF 50V 2% COG	MURATA	GRM1555C2A330GA01D
26	1	C78	6.8pF, 0402, 50V, +/-1%	Capacitor 0402 6.8pF 50V 1% COG	MURATA	GCM1555C1H6R8FA16D
27	2	C80, C81	5.6pF, 0201, 25V, +/- 0.5pF	Capacitor 0201 5.6pF 25V C0G	MURATA	GRM0335C1E5R6DA01D
28	1	D1	1610-2PINS-A-K	Voltage suppressor ESDA7P60-1U1M	ST	<a href="#">ESDA7P60-1U1M</a>
29	2	D2, D3	SOD323	DIODE BAT60JFILM (not mounted)	ST	<a href="#">BAT60JFILM</a>
30	2	D6, D7	0201	ESD PROTECT TRANSIL ESDALC6V1-1U2	ST	<a href="#">ESDALC6V1-1U2</a>
31	1	J1	MOLEX-47590-0001	47590-0001 - MICRO USB AB	MOLEX	47590-0001
32	1	J3	TAOGLAS- RECE.20279.001E.01	CONN RECE.20279.001E.01	TAOGLAS	RECE.20279.001E.01
33	1	J4	SAMTEC-TSW-1X9PTS-NA- STYLE-08	CONNECTOR TSW-109-08-G-S-NA	SAMTEC	TSW-109-08-G-S-NA
34	1	J6	SAMTEC-FTSH-107-01-X- DV-K	CONNECTOR FTSH-107-01-L-DV-K (not mounted)	SAMTEC	SSW-102-02-G-S-RA
35	1	JP2	SAMTEC-SSW-1X2PTS-RA- THROUGH-HOLE	CONNECTOR SSW-102-02-G-S-RA	SAMTEC	SSW-102-02-G-S-RA
36	2	L1, L2	420 nH, COILCRAFT-SELF- SERIE-0402DF 5%	Inductor 0402DF-421XJR 420nH	COILCRAFT	0402DF-421XJRW
37	1	L3	300 Ohms, 0603	742792641 EMI FERRITE BEAD 300 Ohms	WURTH ELEKTRONIK	742792641
38	1	L4	120 Ohms, 0402	SELF BLM15PD121SN1D 0402	MURATA	BLM15PD121SN1D
39	1	L6	90 Ohms ,WURTH-WE- CNSW-1206	744232090 COMMON MODE FILTER	WURTH ELEKTRONIK	744232090
40	1	LD1	LED-PACKAGE-PLCC-4, 2.2V	LED BICOLOR HSMF-A201-A00J1	BROADCOM	HSMF-A201-A00J1

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
41	1	LD2	0603	GREEN-YELLOW LED WURTH 150060VS86000	WURTH ELEKTRONIK	150060VS86000
42	3	LD3, LD4, LD5	0606	LED BICOLOR LTST-C195KGJRKT	LITE-ON	LTST-C195KGJRKT
43	4	P1, P2, P3, P4	SAMTEC-SSW-1X9PTS-RA- THROUGH-HOLE	CONNECTOR SSW-109-02-G-S-RA	SAMTEC	SSW-109-02-G-S-RA
44	1	Q1	SOT23-G-D-S	Transistor STR2P3LLH6 SOT23	ST	<a href="#">STR2P3LLH6</a>
45	1	Q2	SOT323-BCE	Transistor NHDTC114EU SOT323	NEXPERIA	NHDTC114EU
46	1	Q3	SOT23-B-C-E	Transistor MMBT9013L-G-AE3 NPN	UNISONIC	MMBT9013
47	2	R1, R2	10 Ohms, 0402	Resistor 0402 10R 1% 62.5mW	YAGEO	AC0402FR-0710RL
48	2	R3, R48	10K, 0201	Resistor 0201 10K 1% 50 mW	YAGEO	RC0201FR-7D10KL
49	1	R4	1M, 0402	RESISTOR 0402 1M 1%	Würth Elektronik	560112110033
50	2	R5, R55	100 Ohms, 0201	Resistor 0201 100R 1%	YAGEO	AF0201FR-07100RL
51	4	R6, R15, R39, R47	0201	Resistor 0201 (not mounted)	N/A	N/A
52	1	R7	36K, 0201	Resistor 0201 36K 1% 50 mW	VISHAY	CRCW020136K0FKED
53	1	R8	1K5, 0201	Resistor 0201 1K5 1% 50mW	YAGEO	AC0201FR-071K5L
54	1	R9	2K7, 0201	RESISTOR 0201 2K7 1% 50mW	YAGEO	RC0201FR-072K7L
55	3	R10, R38, R41	4K7, 0201	RESISTOR 0201 4K7 1% 50mW	YAGEO	RC0201FR-074K7L
56	1	R11	Ohm 0201	RESISTOR 0201 0R (not mounted)	YAGEO	RC0201FR-070RL
57	7	R12, R21, R22, R23, R24, R25, R26	620 Ohms, 0402	RESISTOR 0402 620R 1% 50 mW	Würth Elektronik	560112110265
58	10	R13, R14, R18, R35, R37, R42, R50, R56, R58, R59	0 Ohm, 0402	Resistor 0402 0R	YAGEO	AC0402FR-070RL
59	3	R16, R17	1.5 Ohm, 0603	RESISTOR 0603 1.5 Ohm 1%	YAGEO	AC0603FR-071R5L
60	3	R19	0 Ohm, 0603	RESISTOR 0603 0 Ohm	YAGEO	AC0603FR-070RL
61	1	R20	10K, 0402	RESISTOR 0402 10K 1%	VISHAY	CRCW040210K0FKEDC
62	2	R27, R28	1.13 Ohm, 0402	RESISTOR 0402 1.13 Ohm 1% 62.5mW	VISHAY	CRCW04021R13FKED
63	8	R29, R30, R31, R32, R33, R34, R40, R54	0 Ohm, 0201	RESISTOR 0201 0R 5%	YAGEO	RC0201JR-7D0RL
64	1	R36	0 Ohm, 0402	Resistor 0402 0R (not mounted)	YAGEO	AC0402FR-070RL
65	2	R43, R44	100 Ohms, 0402	RESISTOR 0402 100R 1%	VISHAY	CRCW0402100RFKEDC

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
66	3	R45, R46, R49	100K, 0201	Resistor 0201 100K 1%	YAGEO	RC0201FR-7D100KL
67	2	R51, R52	560 mOhm, 0603	Resistor 0603 560MilliOhm 1%	YAGEO	RL0603FR-070R56L
68	2	R53, R57	0402	RESISTOR 0402 (not mounted)	N/A	N/A
69	1	SB1	0603, STRAP-FORMAT-0603-OUVERT	SOLDER BRIDGE OPEN SIZE 0603	N/A	N/A
70	2	SB2, SB3	0402, STRAP-FORMAT-0402-OUVERT	SOLDER BRIDGE OPEN SIZE 0402	N/A	N/A
71	1	SW1	C&K-INTER-SERIE-PTS820-WITHOUT-PEGS-H=2.0	PUSH BUTTON PTS820-J20M-SMTR-LFS	C&K	PTS820-J20M-SMTR-LFS
72	1	U1	LQFP48	IC STM32F103CBT6 LQFP48	ST	<a href="#">STM32F103CBT6</a>
73	1	U2	UFDFPN5	NFC TAG IC ST25TV02KC-TFH3 UFDFPN5	ST	<a href="#">ST25TV02KC-TFH3</a>
74	1	U3	SOT23-5PINS	LDO LD3985M33R SOT23-5	ST	<a href="#">LD3985M33R</a>
75	1	U4	DFN6-3x3	LDO LDO40LPU33RY DFN6	ST	<a href="#">LDO40LPU33RY</a>
76	1	U5	QFN-8L	ESD PROTECTION ECMF02-4CMX8 (not mounted)	N/A	N/A
77	1	U6	QFN24	HF READER ST25R200-BMET QFN24	ST	<a href="#">ST25R200-BMET</a>
78	1	U7	UFQFPN32	MCU STM32G0B1KEU6N UFQFPN32	ST	<a href="#">STM32G0B1KEU6N</a>
79	1	U8	UFDFPN5	NFC TAG IC ST25TN01K-AFH5 UFDFPN5	ST	<a href="#">ST25TN01K-AFH5</a>
80	1	X2	NDK-NX2016SA	CRYSTAL NX2016SA-27.12MHZ-EXS00A-CS01188 NDK	NDK AMERICA	NX2016SA-27.12MHZ-EXS00A-CS01188
81	1	Y1	NDK-NX3225GD	SMD CRYSTAL NX3225GD-8MHZ-EXS00A-CG04874	NDK AMERICA	NX3225GD-8MHZ-STD

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