

Bill of materials
Table 1. STEVAL-BMS114 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	18	C1, C8, C15, C19, C21, C29, C31, C33, C40, C42, C45, C48, C50, C57, C59, C71, C75, C76	47nF	0603 - 50V - X7R Class II	WE	885012206093
2	1	C2	4.7uF	1206 - 50V - X7R Class II	WE	885012208094
3	1	C3	2.2uF	1210 - 100V - X7R Class II	WE	885012209071
4	3	C4, C6, C14	100nF	0603 - 100V - X7R Class II	WE	885012206120
5	1	C5	100pF	0603 - 100V - X7R Class II	WE	885012206102
6	2	C7, C12	N.M.	0603	N.M.	N.M.
7	16	C9, C17, C20, C23, C24, C30, C32, C35, C36, C41, C43, C46, C49, C51, C58, C60	10nF	0603 - 50V - X7R Class II	WE	885012206089
8	1	C10	220nF	0603 - 50V - X7R Class II	WE	885012206125
9	2	C11, C13	2.2uF	0805 - 25V - X7R Class II	WE	885012207079
10	4	C16, C27, C28, C38	N.M.	1206	N.M.	N.M.
11	3	C18, C25, C37	1uF	0805 - 50V - X7R Class II	WE	885012207103
12	4	C22, C26, C34, C39	22pF	0603 - 50V - NP0 Class I	WE	885012006053
13	6	C44, C61, C62, C63, C64, C65	2.2nF	0603 - 50V - X7R Class II	WE	885012206085
14	6	C47, C66, C67, C68, C69, C70	6.8nF	0603 - 50V - X7R Class II	WE	885012206088
15	5	C52, C53, C54, C55, C56	100nF	0603 - 50V - X7R Class II	WE	885012206095
16	1	C72	10uF	1210 - 50V - X7R Class II	WE	885012209073
17	1	C73	68nF	0603 - 50V - X7R Class II	WE	885012206094
18	1	C74	33pF	0603 - 50V - NP0 Class I	WE	885012006054
19	1	CGS	4.7nF	0603 - 50V - X7R Class II	WE	885012206087
20	2	D1, D4	SMA6T68AY, SMA	Automotive 600 W, 68V TVS in SMA	ST	SMA6T68AY
21	1	D2	Green	0805 - Led Green - 3.2V	WE	150080GS75000
22	1	D3	SZMM3Z4V7T1G	4.7V Zener Voltage Regulators, 300mW	Onsemi	SZMM3Z4V7T1G
23	16	FB1, FB2, FB3, FB4, FB5, FB6, FB7, FB8, FB9, FB10, FB11, FB12, FB13, FB14, FB15, FB16	1K@100MHz	Ferrite Beads Multi-Layer Power 1KOhm 25% 100MHz 1.5A 0.15Ohm DCR 0805	TDK	MPZ2012S102ATD25

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24	2	ISOH, ISOL	61400416021	USB 2.0 Type A, Receptacle, Horizontal, THT	WE	61400416021
25	1	JP1		THT Vertical 3 pins Header, Pitch 2.54 mm, Single Row	WE	61300311121
26	1	P1		2.00mm - WR-WTB - Male Dual Row Horizontal Shrouded Header w. positive locking	WE	62403021722
27	2	P2, P3	61300211121	2.54mm - WR-PHD Pin Header, THT, pitch 2.54mm, Single Row, Vertical, 2p	WE	61300211121
28	1	Q1	STL8N10LF3, PowerFLAT 5x6_WF type C	Automotive-grade N-channel 100 V, 25 mΩ typ., 7.8 A STRipFET™ F3 Power MOSFET in a PowerFLAT™ 5x6 package	ST	STL8N10LF3
29	1	Q2	STD105N10F7AG, DPAK_TO-252	Automotive-grade N-channel 100 V, 6.8 mΩ typ., 80 A, STRipFET™ F7 Power MOSFET in a DPAK package	ST	STD105N10F7AG
30	1	R1	10k	1206 - ±1% - 0.66W	Panasonic	ERJUP8F1002V
31	1	R2	N.M.	0805	N.M.	N.M.
32	2	R3, R7	10	0603 - ±1% - 0.25W	Panasonic	ERJPA3F10R0V
33	15	R4, R8, R11, R14, R17, R21, R23, R26, R29, R33, R40, R44, R51, R56, R60	100	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1000V
34	1	R5	2.7k	0603 - ±1% - 0.125W	Vishay	MCT06030C2701FP500
35	14	R6, R9, R12, R16, R19, R22, R24, R28, R31, R38, R41, R50, R52, R59	39	2010 - ±1% - 1.25W	TE Connectivity	CRGP2010F39R
36	3	R10, R13, RMREG	N.M.	0603	N.M.	N.M.
37	4	R15, R18, R25, R27	60.4	0603 - ±1% - 0.1W	Panasonic	ERJ3EKF60R4V
38	2	R20, R43	10K	0603 - ±1% - 0.2W	Panasonic	ERJP03F1002V
39	3	R30, R36, R42	6.2K	0805 - ±1% - 0.5W	Panasonic	ERJP06F6201V
40	1	R32	18K	0603 - ±1% - 0.2W	Panasonic	ERJP03F1802V
41	6	R34, R45, R46, R47, R48, R49	10k	0805 - ±1% - 0.5W	Panasonic	ERJP6WF1002V
42	1	R35	10k	0603 - ±1% - 0.1W	TDK	NTCG163JH103HTDS
43	1	R37	3.9k	0603 - ±1% - 0.1W	Panasonic	ERJ3EKF3901V
44	1	R39	2K	0603 - ±1% - 0.2W	Panasonic	ERJP03F2001V
45	5	R53, R54, R55, R57, R58	1.5K	2010 - ±1% - 2W	TE Connectivity	35021K5FT
46	1	R61	N.M.	N.M.	N.M.	N.M.
47	1	RG	1K	0603 - ±1% - 0.25W	Panasonic	ERJPA3F1001V
48	1	RHOT	47	2512 - ±5% - 1W	TE Connectivity	352047RJT
49	1	RPD	100K	0603 - ±1% - 0.25W	Panasonic	ERJP03F1003V
50	2	T1, T2	125uH	Transformer for BMS	WE	74941000

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51	1	U1	L99BM114-TR, TQFP64	Chip for battery management applications with daisy chain up to 31 devices	ST	L99BM114-TR
52	2	U2, U3	USBLC6-2SC6Y, OT23-6L	Automotive ESD protection for high speed interfaces.	ST	USBLC6-2SC6Y
53	1	U4	PS2703-1-A	4-Pin Phototransistor Optocoupler	Renesas	PS2703-1-A
54	1	for blister	60900213421	WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	60900213421
55	4	for blister	970080365	WA-SPAll Plastic Spacer Stud, metric, internal/ internal	WE	970080365
56	4	for blister	97790403111	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790403111
57	1	for blister	624030213322	WR-WTB 2.00 mm Female Dual Row Terminal Housing w. positive locking	WE	624030213322
58	30	for blister	62400113722	WR-WTB 2.00 mm Female Dual Row Crimp Contact	WE	62400113722

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