



Bill of materials

Table 1. STEVAL-BMS1T bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	2	C1, C7	22pF	0603 - 50V - NP0 Class I	WE	885012006053
2	2	C2, C8	N.M.	1206	N.M.	N.M.
3	2	C3, C4	100nF	0603 - 50V - X7R Class II	WE	885012206095
4	1	C5	10nF	0603 - 50V - X7R Class II	WE	885012206089
5	3	C6, C9, C10	1uF	0805 - 50V - X7R Class II	WE	885012207103
6	2	CN1, CN3		2.54mm - 1 row - KK254 - Male	WE	61900411121
7	1	CN2		2.54mm - 1 row - KK254 - Male	WE	61900711121
8	1	D1	SZMM3Z4V7T1G	4.7V Zener Voltage Regulators, 300mW	Onsemi	SZMM3Z4V7T1G
9	1	D2	Red	0805 - Led Red - 2V	WE	150080RS75000
10	1	D3	Amber	0805 - Led Amber - 2V	WE	150080AS75000
11	1	D4	Yellow	0805 - Led Yellow - 2V	WE	150080YS75000
12	1	D5	Blue	0805 - Led Blue - 3.2V	WE	150080BS75000
13	2	D6, D7	Green	0805 - Led Green - 3.2V	WE	150080GS75000
14	6	JP1, JP2, JP3, JP4, JP5, JP6		THT Vertical 3 pins Header, Pitch 2.54 mm, Single Row	WE	61300311121
15	1	JP7		2.54mm - 1 row	WE	61300211121
16	1	P1	629004113921	USB 2.0 Type A, Plug, Horizontal, SMT, with Clip	WE	629004113921
17	5	Q1, Q2, Q3, Q4, Q5	BSS138Q	N-Channel Enhancement Mosfet	NEXPERIA	BSS138Q-7-F
18	2	R1, R3	60.4	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3EKF60R4V
19	11	R2, R4, R5, R9, R10, R11, R18, R22, R23, R24, R25	10K	0603 - $\pm 1\%$ - 0.2W	Panasonic	ERJP03F1002V
20	2	R6, R7	680	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F6800V
21	1	R8	0	0603 - $\pm 1\%$ - 0.1W	Panasonic	ERJ3GEY0R00V
22	11	R12, R17, R19, R20, R26, R27, R28, R31, R32, R33, R34	100	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1000V
23	3	R13, R14, R21	1.1k	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1101V
24	3	R15, R16, R36	750	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJUP3D7500V
25	1	R29	N.M.	0603	N.M.	N.M.
26	1	R30	110K	0603 - $\pm 1\%$ - 0.25W	Panasonic	ERJPA3F1103V
27	1	R35	N.M.	N.M.	N.M.	N.M.
28	1	T1	125uH	Transformer for BMS	WE	74941000
29	1	U1	L99BM1T-TR, SO16N	General purpose SPI to isolated SPI transceiver	ST	L99BM1T-TR

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
30	1	U2	USBLC6-2SC6Y, SOT23-6L	Automotive ESD protection for high speed interfaces.	ST	USBLC6-2SC6Y
31	7	for blister	60900213421	WR-PHD 2.54 mm Multi-Jumper Jumper with Test Point	WE	60900213421
32	2	for blister	61900411621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900411621
33	1	for blister	61900711621	WR-WTB 2.54 mm Female Terminal Housing	WE	61900711621
34	16	for blister	61910113722	WR-WTB 2.54 mm Female Crimp Contact	WE	61910113722
35	4	for blister	970080365	WA-SPAll Plastic Spacer Stud, metric, internal/ internal	WE	970080365
36	4	for blister	97790403111	WA-SCRW Pan Head Screw w. cross slot M3	WE	97790403111

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