



## Bill of materials

Table 1. STEVAL-TSP004V2

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	C5	10nF 10%	Ceramic Capacitor	Several	
2	1	C6	10nF 10%	Ceramic Capacitor	Several	
3	1	C7	10nF 10%	Ceramic Capacitor	Several	
4	1	C8	10nF 10%	Ceramic Capacitor	Several	
5	1	C9	2.2nF	Ceramic Capacitor	Several	
6	1	C12	2.2nF	Ceramic Capacitor	Several	
7	1	C14	1nF 10%	Ceramic Capacitor	Several	
8	1	C16	1nF 10%	Ceramic Capacitor	Several	
9	1	C18	0.1uF 10%	Ceramic Capacitor	Several	
10	1	C19	10nF	Ceramic Capacitor	Several	
11	1	C21	1nF 10%	Ceramic Capacitor	Several	
12	1	C22	TBD	Ceramic Capacitor		
13	1	C23	470nF 10%	Ceramic Capacitor	Several	
14	1	C26	33uF 20%	Aluminium capacitor	Panasonic	EEEFK2A330P
15	1	C27	22uF	Ceramic Capacitor	Several	
16	1	C28	2.2u	Ceramic Capacitor	Several	
17	1	C29	2.2u	Ceramic Capacitor	Several	
18	1	C30	68pF	Ceramic Capacitor	Several	
19	1	C31	1.5nF	Ceramic Capacitor	Several	
20	1	C33	22uF	Ceramic Capacitor	Several	
21	1	C34	330uF	Aluminium capacitor	Panasonic	EEEFK1C331P
22	1	C35	22uF	Ceramic Capacitor	Several	
23	1	C36	0.1u	Ceramic Capacitor	Several	
24	1	C37	22uF	Ceramic Capacitor	Several	
25	1	C38	10nF	Ceramic Capacitor	Several	
26	1	C39	1uF	Ceramic Capacitor	Several	
27	1	C40	1uF	Ceramic Capacitor	Several	
28	1	C41	1uF	Ceramic Capacitor	Several	
29	1	C44	0.1uF	Ceramic Capacitor	Several	
30	1	C45	0.1uF	Ceramic Capacitor	Several	
31	1	C48	1uF	Ceramic Capacitor	Several	
32	1	C49	3.3nF	Ceramic Capacitor	Several	
33	1	C50	47nF	Ceramic Capacitor	Several	
34	1	C53	1uF	Ceramic Capacitor	Several	
35	1	C54	470p	Ceramic Capacitor	Several	

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
36	1	C55	100pF	Ceramic Capacitor	Several	
37	1	C56	47nF	Ceramic Capacitor	Several	
38	1	C59	1uF	Ceramic Capacitor	Several	
39	1	C60	1nF	Ceramic Capacitor	Several	
40	1	C61	2.2n	Ceramic Capacitor	Several	
41	1	C64	2.2u	Ceramic Capacitor	Several	
42	1	C67	22uF	Ceramic Capacitor	Several	
43	1	C68	22uF	Ceramic Capacitor	Several	
44	1	C69	10nF	Ceramic Capacitor	Several	
45	1	D1	STTH302S, SMC	Diode	ST	<a href="#">STTH302S</a>
46	1	D4	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
47	1	D7	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
48	1	D8	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
49	1	D9	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
50	1	D11	SMAJ58A, SMA	TVS diode	ST	<a href="#">SMAJ58A</a>
51	1	D12	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
52	1	D13	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
53	1	D14	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
54	1	D17	STPS2H100A, SMA	Schottky Diode	ST	<a href="#">STPS2H100A</a>
55	1	D20	Aux det	Diode LED	Kingbright	<a href="#">KA-3528SGT</a>
56	1	D21	STTH302S, SMC	Diode	ST	<a href="#">STTH302S</a>
57	1	D26	Out det	Diode LED	Kingbright	<a href="#">KA-3528SGT</a>
58	1	D28	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
59	1	D32	MM3Z15VT1	Zenere Diode	Onsemi	<a href="#">MM3Z15VT1</a>
60	1	D34	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
61	1	D36	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
62	1	D39	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
63	1	D40	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
64	1	D44	T2P det	Diode LED	Kingbright	<a href="#">KA-3528SGT</a>
65	1	D52	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
66	1	D57	BAT46JFILM, SOD323	Schottky Diode	ST	<a href="#">BAT46JFILM</a>
67	1	JM1	Jumper-doppio	Pin strip connector	Several	
68	1	JM2	Jumper-doppio	Pin strip connector	Several	
69	1	J1	SA	Connector	Several	
70	1	J2	SP	Connector	Several	
71	1	J3	DATA & POWER INPUT	Connector	Molex/several	
72	1	J4	DATA OUTPUT	Connector	Molex/several	
73	1	J5	MOR-10X10.5-P5-2PIN	Connector	Several	<a href="#">MOR-2POLI-508</a>
74	1	L5	10uH	Inductor	Colicraft	<a href="#">MSS7341-103ML</a>
75	1	L6	0.33uH	Inductor	Colicraft	<a href="#">DO1813H-331ML</a>

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
76	1	Q12	STL66N3LLH5, PowerFLAT™ 5x6	Mosfet	ST	<a href="#">STL66N3LLH5</a>
77	1	Q16	MMBT3906LT1	BJT	Several	MMBT3906LT1
78	1	Q17	Si4848DY-T1	Mosfet	VISHAY	Si4848DY-T1
79	1	Q18	MMBT3904LT1	BJT	Several	MMBT3904LT1
80	1	R1	75R	Resistor	Several	
81	1	R2	75R	Resistor	Several	
82	1	R5	75R	Resistor	Several	
83	1	R7	75R	Resistor	Several	
84	1	R9	1K 1%	Resistor	Several	
85	1	R10	75R	Resistor	Several	
86	1	R11	75R	Resistor	Several	
87	1	R12	75R	Resistor	Several	
88	1	R13	75R	Resistor	Several	
89	1	R17	0R0	Resistor	Several	
90	1	R21	220R	Resistor	Several	
91	1	R23	100R	Resistor	Several	
92	1	R26	0R0	Resistor	Several	
93	1	R27	27k	Resistor	Several	
94	1	R32	15K	Resistor	Several	
95	1	R37	0R0	Resistor	Several	
96	1	R38	1k	Resistor	Several	
97	1	R43	0R0	Resistor	Several	
98	1	R44	3K3	Resistor	Several	
99	1	R45	24.9K 1%	Resistor	Several	
100	1	R49	0R0	Resistor	Several	
101	1	R51	15K	Resistor	Several	
102	1	R52	3K3	Resistor	Several	
103	1	R53	5R	Resistor	Several	
104	1	R54	0R0	Resistor	Several	
105	1	R58	27K	Resistor	Several	
106	1	R62	10R	Resistor	Several	
107	1	R64	0R0	Resistor	Several	
108	1	R65	1K	Resistor	Several	
109	1	R66	10R	Resistor	Several	
110	1	R70	18K 1%	Resistor	Several	
111	1	R72	120K 1%	Resistor	Several	
112	1	R80	20R	Resistor	Several	
113	1	R83	10K	Resistor	Several	
114	1	R84	0R0	Resistor	Several	
115	1	R89	3.3K	Resistor	Several	
116	1	R90	1k5	Resistor	Several	

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
117	1	R91	10R	Resistor	Several	
118	1	R92	10R	Resistor	Several	
119	1	R93	1K	Resistor	Several	
120	1	R94	21K 1%	Resistor	Several	
121	1	R95	24.9K 1%	Resistor	Several	
122	1	R96	0R0	Resistor	Several	
123	1	R99	47K	Resistor	Several	
124	1	R101	24.9K 1%	Resistor	Several	
125	1	R103	510R	Resistor	Several	
126	1	R104	4.7K 1%	Resistor	Several	
127	1	R107	10K	Resistor	Several	
128	1	R108	0.30 ohm 1%	Resistor	Bourns	
129	1	R109	0.30 ohm 1%	Resistor	Bourns	
130	1	R111	12.4K 1%	Resistor	Several	
131	1	R112	15K 1%	Resistor	Several	
132	1	R117	5.1K	Resistor	Several	
133	1	R119	3.3K	Resistor	Several	
134	1	R122	0R0	Resistor	Several	
135	1	R125	0R0	Resistor	Several	
136	1	R131	30R9 1%	Resistor	Several	
137	1	TP2	Red	PC Test Point	Keystone Electr.	THM-5010
138	1	TP3	BLACK	PC Test Point	Keystone Electr.	THM-5011
139	1	TP4	Red	PC Test Point	Keystone Electr.	THM-5010
140	1	TP5	Red	PC Test Point	Keystone Electr.	THM-5010
141	1	TP6	Red	PC Test Point	Keystone Electr.	THM-5010
142	1	TP7	Red	PC Test Point	Keystone Electr.	THM-5010
143	1	TP8	BLACK	PC Test Point	Keystone Electr.	THM-5011
144	1	TP9	Red	PC Test Point	Keystone Electr.	THM-5010
145	1	TP10	Red	PC Test Point	Keystone Electr.	THM-5010
146	1	TP11	BLACK	PC Test Point	Keystone Electr.	THM-5011
147	1	TP12	BLACK	PC Test Point	Keystone Electr.	THM-5011
148	1	TP13	Red	PC Test Point	Keystone Electr.	THM-5010
149	1	TP14	Red	PC Test Point	Keystone Electr.	THM-5010
150	1	TP15	Red	PC Test Point	Keystone Electr.	THM-5010
151	1	TP16	Red	PC Test Point	Keystone Electr.	THM-5010
152	1	TP18	Red	PC Test Point	Keystone Electr.	THM-5010
153	1	TP19	BLACK	PC Test Point	Keystone Electr.	THM-5011
154	1	TP20	Red	PC Test Point	Keystone Electr.	THM-5010
155	1	TP21	Red	PC Test Point	Keystone Electr.	THM-5010
156	1	TP22	Red	PC Test Point	Keystone Electr.	THM-5010

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
157	1	TP23	BLACK	PC Test Point	Keystone Electr.	THM-5011
158	1	TP24	BLACK	PC Test Point	Keystone Electr.	THM-5011
159	1	T1	ETH1-460L	Data Transfo	Coilcraft	ETH1-460L
160	1	T5	HA3691-AL	Power Transfo	Coilcraft	HA3691-AL
161	1	T8	DA2319-AL	Power Transfo	Coilcraft	DA2319-AL
162	1	U1	PM8803, HTSSOP20-LARGE	Controller IC	ST	<a href="#">PM8803</a>
163	1	U2	FOD817AS	Optocoupler	Faiirchild/Onsemi	FOD817AS
164	1	U3	FOD817AS	Optocoupler	Faiirchild/Onsemi	FOD817AS
165	1	U4	TS431AILT, SOT23-5L	Voltage Reference	ST	<a href="#">TS431AILT</a>
166	1	U7	FOD817AS	Optocoupler	Faiirchild/Onsemi	FOD817AS

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