

**STEVAL-TSP004V2**

Item	Reference	Description	Value	PCB Footprint	Supplier	VOLTAGE
1	C5	Ceramic Capacitor	10nF 10%	C0603	TDK	100V
2	C6	Ceramic Capacitor	10nF 10%	C0603	TDK	100V
3	C7	Ceramic Capacitor	10nF 10%	C0603	TDK	100V
4	C8	Ceramic Capacitor	10nF 10%	C0603	TDK	100V
5	C9	Ceramic Capacitor	2.2nF	C1812	AVX	2KV
6	C12	Ceramic Capacitor	2.2nF	C1812	AVX	2KV
7	C14	Ceramic Capacitor	1nF 10%	C0603	TDK	100V
8	C16	Ceramic Capacitor	1nF 10%	C0805	TDK	100V
9	C18	Ceramic Capacitor	0.1uF 10%	C0805	TDK	100V
10	C19	Ceramic Capacitor	10nF	C0603	Several	50V
11	C21	Ceramic Capacitor	1nF 10%	C0603	TDK	100V
12	C22	Ceramic Capacitor	TBD	C1812	AVX	2KV
13	C23	Ceramic Capacitor	470nF 10%	C0603	Several	50V
14	C26	Aluminium capacitor	33uF 20%	C-POL8-10	Panasonic - EEEFK2A330P	100V
15	C27	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
16	C28	Ceramic Capacitor	2.2u	C1210	MURATA - GRM32ER72A225KA35L	100V
17	C29	Ceramic Capacitor	2.2u	C1210	MURATA - GRM32ER72A225KA35L	100V
18	C30	Ceramic Capacitor	68pF	C0805	TDK	100V
19	C31	Ceramic Capacitor	1.5nF	C0805	Several	50V
20	C33	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
21	C34	Aluminium capacitor	330uF	C-POL8-10	Panasonic - EEEFK1C331P	16V
22	C35	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
23	C36	Ceramic Capacitor	0.1u	C0603	Several	50V
24	C37	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
25	C38	Ceramic Capacitor	10nF	C0603	Several	50V
26	C39	Ceramic Capacitor	1uF	C0603	KEMET	25V
27	C40	Ceramic Capacitor	1uF	C0603	KEMET	25V
28	C41	Ceramic Capacitor	1uF	C0603	KEMET	25V
29	C44	Ceramic Capacitor	0.1uF	C0603	Several	50V
30	C45	Ceramic Capacitor	0.1uF	C0603	Several	50V
31	C48	Ceramic Capacitor	1uF	C0603	KEMET	25V
32	C49	Ceramic Capacitor	3.3nF	C0603	Several	50V
33	C50	Ceramic Capacitor	47nF	C0603	Several	50V
34	C53	Ceramic Capacitor	1uF	C0603	KEMET	25V
35	C54	Ceramic Capacitor	470p	C0603	Several	50V
36	C55	Ceramic Capacitor	100pF	C0603	Several	50V
37	C56	Ceramic Capacitor	47nF	C0603	Several	50V
38	C59	Ceramic Capacitor	1uF	C0603	KEMET	25V
39	C60	Ceramic Capacitor	1nF	C0805	TDK	100V
40	C61	Ceramic Capacitor	2.2n	C1812	AVX	2KV
41	C64	Ceramic Capacitor	2.2u	C1210	MURATA - GRM32ER72A225KA35L	100V
42	C67	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
43	C68	Ceramic Capacitor	22uF	C1206	Murata - GRM31CR61C226ME15L	16V
44	C69	Ceramic Capacitor	10nF	C0603	Several	50V
45	D1	Diode	STTH302S	SMC	STMicroelectronics	
46	D4	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
47	D7	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	

48	D8	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
49	D9	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
50	D11	TVS diode	SMAJ58A	SMA	STMicroelectronics	
51	D12	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
52	D13	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
53	D14	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
54	D17	Schottky Diode	STPS2H100A	SMA	STMicroelectronics	
55	D20	Diode LED	Aux det	KA-3528SGT	Kingbright	
56	D21	Diode	STTH302S	SMC	STMicroelectronics	
57	D26	Diode LED	Out det	KA-3528SGT	Kingbright	
58	D28	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
59	D32	Zenere Diode	MM3Z15VT1	SOD323	Onsemi	
60	D34	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
61	D36	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
62	D39	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
63	D40	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
64	D44	Diode LED	T2P det	KA-3528SGT	Kingbright	
65	D52	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
66	D57	Schottky Diode	BAT46J	SOD323	STMicroelectronics	
67	JM1	Connector	Jumper	3PIN-P254	Several	
68	JM2	Connector	Jumper	3PIN-P254	Several	
69	J1	Connector	SA	P-JACK-RAPC722	Several	
70	J2	Connector	SP	P-JACK-RAPC722	Several	
71	J3	Connector	DATA & POWER INPUT	RJ45-8PIN	Molex	
72	J4	Connector	DATA OUTPUT	RJ45-8PIN	Molex	
73	J5	Connector	MOR-10X10.5-P5-2PIN	MOR-2POLI-508	Several	
74	L5	Inductor	10uH	MSS7341-103ML	Colicraft	
75	L6	Inductor	0.33uH	DO1813H	Colicraft	
76	Q12	Mosfet	STL60N3LLH5	PowerFLAT™ 5x6	STMicroelectronics	
77	Q16	Mosfet	MMBT3906LT1	SOT23	Several	
78	Q17	Mosfet	Si4848DY	so8pwrpak-SO8	VISHAY	
79	Q18	Mosfet	MMBT3904LT1	SOT23	Several	
80	R1	Resistor	75R	R0603	Several	
81	R2	Resistor	75R	R0603	Several	
82	R5	Resistor	75R	R0603	Several	
83	R7	Resistor	75R	R0603	Several	
84	R9	Resistor	1K 1%	R0603	Several	
85	R10	Resistor	75R	R0603	Several	
86	R11	Resistor	75R	R0603	Several	
87	R12	Resistor	75R	R0603	Several	
88	R13	Resistor	75R	R0603	Several	
89	R17	Resistor	0R0	R0805	Several	
90	R21	Resistor	220R	R1206	Several	
91	R23	Resistor	100R	R1206	Several	
92	R26	Resistor	0R0	R1206	Several	
93	R27	Resistor	27k	R0603	Several	
94	R32	Resistor	15K	R0805	Several	
95	R37	Resistor	0R0	R1206	Several	
96	R38	Resistor	1k	R0603	Several	

97	R43	Resistor	0R0	R0805	Several	
98	R44	Resistor	3K3	R0603	Several	
99	R45	Resistor	24.9K	R0603	Several	
100	R49	Resistor	0R0	R1206	Several	
101	R51	Resistor	15K	R0805	Several	
102	R52	Resistor	3K3	R0603	Several	
103	R53	Resistor	5R	R1206	Several	
104	R54	Resistor	0R0	R1206	Several	
105	R58	Resistor	27K	R0603	Several	
106	R62	Resistor	10R	R0603	Several	
107	R64	Resistor	0R0	R0603	Several	
108	R65	Resistor	1K	R0603	Several	
109	R66	Resistor	10R	R0603	Several	
110	R70	Resistor	10K 1%	R0603	Several	
111	R72	Resistor	120K 1%	R0603	Several	
112	R80	Resistor	20R	R0805	Several	
113	R83	Resistor	10K	R0603	Several	
114	R84	Resistor	0R0	R0603	Several	
115	R89	Resistor	3.3K	R0603	Several	
116	R90	Resistor	1k5	R0603	Several	
117	R91	Resistor	10R	R0603	Several	
118	R92	Resistor	10R	R0805	Several	
119	R93	Resistor	1K	R0603	Several	
120	R94	Resistor	21K 1%	R0603	Several	
121	R95	Resistor	24.9K 1%	R0603	Several	
122	R96	Resistor	0R0	R0603	Several	
123	R99	Resistor	47K	R0603	Several	
124	R101	Resistor	24.9K 1%	R0603	Several	
125	R103	Resistor	510R	R0603	Several	
126	R104	Resistor	4.7K 1%	R0603	Several	
127	R107	Resistor	10K	R0603	Several	
128	R108	Resistor	0.30 ohm 1%	R1206	Bourns	
129	R109	Resistor	0.30 ohm 1%	R1206	Bourns	
130	R111	Resistor	12.4K 1%	R0603	Several	
131	R112	Resistor	15K 1%	R0603	Several	
132	R117	Resistor	5.1K	R0603	Several	
133	R119	Resistor	3.3K	R0603	Several	
134	R122	Resistor	0R0	R0603	Several	
135	R125	Resistor	0R0	R1206	Several	
136	R131	Resistor	30R9 1%	R0805	Several	
137	TP2	Test Point	Red	TH-5013	Keystone	
138	TP3	Test Point	BLACK	TH-5013	Keystone	
139	TP4	Test Point	Red	TH-5013	Keystone	
140	TP5	Test Point	Red	TH-5013	Keystone	
141	TP6	Test Point	Red	TH-5013	Keystone	
142	TP7	Test Point	Red	TH-5013	Keystone	
143	TP8	Test Point	BLACK	TH-5013	Keystone	
144	TP9	Test Point	Red	TH-5013	Keystone	
145	TP10	Test Point	Red	TH-5013	Keystone	

146	TP11	Test Point	BLACK	TH-5013	Keystone	
147	TP12	Test Point	BLACK	TH-5013	Keystone	
148	TP13	Test Point	Red	TH-5013	Keystone	
149	TP14	Test Point	Red	TH-5013	Keystone	
150	TP15	Test Point	Red	TH-5013	Keystone	
151	TP16	Test Point	Red	TH-5013	Keystone	
152	TP18	Test Point	Red	TH-5013	Keystone	
153	TP19	Test Point	BLACK	TH-5013	Keystone	
154	TP20	Test Point	Red	TH-5013	Keystone	
155	TP21	Test Point	Red	TH-5013	Keystone	
156	TP22	Test Point	Red	TH-5013	Keystone	
157	TP23	Test Point	BLACK	TH-5013	Keystone	
158	TP24	Test Point	BLACK	TH-5013	Keystone	
159	T1	Data Transfo	ETH1-460	ETH1-460	Coilcraft	
160	T5	Power Transfo	COILCRAFT HA3691-AL	PA2328NL	Coilcraft	
161	T8	Power Transfo	COILCRAFT DA2319-AL	DA2318-AL	Coilcraft	
162	U1	Controller IC	PM8803	HTSSOP20-LARGE	STMicroelectronics	
163	U2	Optocoupler	Fairchild FOD817AS	FOD817	Fairchild	
164	U3	Optocoupler	Fairchild FOD817AS	FOD817	Fairchild	
165	U4	Voltage Reference	TS431AILT	SOT23-5L	STMicroelectronics	
166	U7	Optocoupler	Fairchild FOD817AS	FOD817	Fairchild	