

STEVAL-OET003V1

BILL OF MATERIALS

Item	Qty	Reference	Manufacturer	Part Number	Package	Description	Additional Notes
1	1	C27	TDK Corporation	CGA3E2C0G2A221J080AA	smc0603	220pF 100V ±5% Ceramic COG	Automotive grade
2	1	C23	TDK Corporation	CGA3EANP02A102J080AA	smc0603	1nF 100V ±5% Ceramic COG	Automotive grade
3	18	C1,C6,C10,C12,C15,C21,C22,C24,C25,C26,C28,C29,C30,C31,C37,C38,C39,C40	AVX Corporation	ESD51C104K4T2A-24	smc0603	100nF 100V ±10% Ceramic X7R	Automotive grade
4	6	C3,C4,C7,C11,C13,C14	AVX Corporation	06031A470K4T2A	smc0603	47pF 100V ±10% Ceramic COG	Automotive grade
5	4	C32,C33,C41,C43	Samsung Electro-Mechanics America, Inc	CL1C0200JB81PNC	smc0603	20pF 50V ±5% Ceramic COG	not mounted
6	2	C34,C42	TDK Corporation	CGA3E1X7R1E684M080AC	smc0603	680nF 16V ±10% 680nF,10%,16V,TAN-B	0.3 Ohm, 15 nH
7	2	C35,C44	TDK Corporation		smc0603	10nF 50V ±10% Ceramic X7R	Automotive grade
8	4	C5,C16,C36,C45	Taiyo Yuden	LMK107BBJ106MAHT	smc0603	10uF 10V ±20% Ceramic X5R	Automotive grade
9	1	C19	Any	Any	smc0603	100nF -- ±10% Ceramic X5R	not mounted
10	1	C20	Any	Any	smc0603	2,2uF 10V ±10% Ceramic X5R	not mounted
11	2	C2,C8	Murata Electronics North America	GCM188R71H222KA37D	smc0603	2n2 50V ±10% Ceramic X7R	Automotive grade
12	2	C17,C18	Any	Any	smc0603	N.M. Ceramic X7R	not mounted
13	1	C9	TDK Corporation	CGA3E2C0G1H471J080AA	smc0603	470pF 50V ±5% Ceramic COG	Automotive grade
14	5	D4,D10,D12,D13,D16	STMicroelectronics	BAT48JFILM	SOD323	BAT48JFILM 40 V, 350 mA Small signal Schottky diode	
15	2	D15,D18	STMicroelectronics	ESDLIN1524BJ	SOD323 F	ESDLIN1524BJ 30kV Transil for ESD protection	not mounted
16	2	D14,D17		ESDLINxx	SOD523		
17	2	D1,D7	STMicroelectronics	ESDCAN02-2BWY	SOT323-3L	ESDCAN02-2BWY	
18			STMicroelectronics	ESDCAN24-2BLY	SOT23-3L	ESDCAN24-2BLY 30kV Automotive dual-line Transil™ for ESD protection	
19			STMicroelectronics	ESDCAN03-2BWY	SOT323-3L	ESDCAN03-2BWY	
20			STMicroelectronics	ESDCAN01-2BLY	SOT23-3L	ESDCAN01-2BLY	
21	4	D2,D8		ESDCANxx	SOD323 3L	ESDCANxx Automotive dual-line Transil™ for ESD protection	
22	1	D21	OSRAM	LH R974	SMD0805	RED LED 5V reverse SMD LED	
23	1	D20	Lite-On	LTST-C171TBKT	SMD0805	BLUE LED 5V reverse SMD LED	
24	1	D19	OSRAM	LYR971HL1020R18	SMD0805	YELLOW LED 5V reverse SMD LED	
25	2	D22,D24	Lite-On	LTST-S270GKT	SMD0805	GREEN LED 5V reverse SMD LED	
26	1	D23	Lite-On	LTST-C190KFKT	SMD0805	ORANGE LED 5V reverse SMD LED	
27	1	D11	STMicroelectronics	SM4T6V7AY	SMA	SM4T6V7AY 5V Transil™ Unidirectional	
28	2	D5,D6	STMicroelectronics	STPS3L40SY	SMC	STPS3L40-Y 3A,40V Schottky Diode	
29	2	J9,J12	Phoenix Contact	MKDSN 1.5/3-ST-3,81	SIPTM3003	CONN3 400 V 3way PCB terminal block	
30	9	J1,J2,J3,J4,J6,J7,J8,J10,J11	Any		SIPTM2002	STRIPLINE 25V 2way single row STRIP Line (male) 2.54mm pitch for JUMPER	
31	15	Jumper	ASSMAN N WSW	AKST/Z Black	SIPTM2002	JUMPER SOCKET	
32	2	J13,J15	ERNI	214017		SWIM 5V SWIM CONNECTOR	
33	1	J5	CLIFF ELECTRONIC COMPONENTS	DC10B		5VCONN 5V INPUT CONNECTOR	
34	2	L1,L3	TDK Corporation	ACT45B-101-2P-TL003		ACT45B-101-2P-TL003 Common Mode Choke	
35	2	L4,L5	TE Connectivity	BMB2A0120AN4	sml0805	BEAD 5V BEED INDUCTOR	
36	1	L2	WE	732 773 220		22uH 1A ±20% SMD Power Inductor	
37	2	P1,P2	Amphenol	6E17-C009P-AJ121		DB9 MALE FOR CAN DB9 MALE CONNECTOR RIGHT ANGLE	
38	1	Q1	STMicroelectronics	STN4NF06L	sot223	STN4NF06L Power MOSFET	
39	12	R1,R7,R9,R12,R14,R24,R28,R30,R32,R34,R44,R51	Any	Any	SMR0805	0 OHM ±1% Resistor	
40	13	R8,R10,R15,R16,R23,R25,R26,R27,R29,R31,R35,R36,R49	Any	Any	SMR0805	not mounted ±1% Resistor	not mounted
41	4	R3,R38,R46,R52	Any	Any	SMR0805	N.M.10k 1/8W ±1% Resistor	not mounted
42	2	R11,R43	Any	Any	SMR0805	1K 1/8W ±1% Resistor	

43	2	R13,R33	Any	Any	SMR0805	120 1/8W ±1% Resistor	
44	2	R40,R47	Any	Any	SMR0805	4K7 1/8W ±1% Resistor	
45	6	R17,R37,R45,R50,R67;R68	Any	Any	SMR0805	10K 1/8W ±1% Resistor	
46	2	R3,R20	Any	Any	SMR0805	120R 1/8W ±1% Resistor	
47	2	R51,R40	Any	Any	SMR0805	60R 1/8W ±1% Resistor	
48	2	R55,R64	Any	Any	SMR0603	1M 1/16W ±1% Resistor	not mounted
49	2	R53,R62	Any	Any	SMR0603	10K 1/16W ±1% Resistor	
50	1	R19	Any	Any	SMR0805	47k 1/8W ±1% Resistor	
51	4	R41,R48,R54,R63	Any	Any	SMR0603	0 1/16W ±1% Resistor	
52	2	R56,R65	Any	Any	SMR0603	57 1/16W ±1% Resistor	not mounted
53	1	R57	Any	Any	SMR0603	470 1/16W ±1% Resistor	
54	4	R58,R60,R61,R66	Any	Any	SMR0603	270 1/16W ±1% Resistor	
55	1	R59	Any	Any	SMR0603	100 1/16W ±1% Resistor	
56	1	R22	Panasonic Electronic Components	ERJ-6ENF2491V	SMR0805	2.49k 1/8W ±1% Resistor	or equivalent
57	1	R39	Murata Electronics North America	PTGL14ARR15M1B51B0	disc550x175ls200x100H34	0.15R ±20% THERMISTOR PTC 0.15 OHM	
58	1	R18	Any	Any	SMR0805	110k 1/8W ±1% Resistor	
59	1	R21	Any	Any	SMR0805	1.5k 1/8W ±1% Resistor	
60	1	R20	Any	Any	SMR0805	220R 1/8W ±1% Resistor	
61	1	SW1,SW2	TE Connectivity	1825910-6	puls4smd	RESET SWITCH MICRO SWITCH	
62	22	TP5,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28	RS	200-203	testpoint	PCB Test point PAD	pad
63	2	U1,U4	NXP Semiconductors	TJA1043T,118	sog05014wg244i350	TJA1043T COMPETITION CAN TRANCEIVER	
64	2	U7,U11	NXP Semiconductors	TJA1021T/10/C,118	SO-8	TJA1021T COMPETITION LIN TRANCEIVER	
65	4	U3,U5,U8,U10				NOT MOUNTED MICRO SWITCH	not mounted
66	2	U13,U15	STMicroelectronics	STM8AF5288TAY	QUAD50M48WG900	STM8AF5288TAY 8-bit Microcontroller	
67	1	U7	STMicroelectronics	LF33CDT-TRY	DPACK	LF33CDT-TRY N.M. Voltage regulator	
68	1	U6	Murata Electronics North America	BNX002-01		Murata BNX002-01 Line filter	
69	1	U2	STMicroelectronics	A7985A	HSOP8	A7985A Buck-boost IC	
70	2	U12,U14	STMicroelectronics	USBLC6-4SC6Y	SOT23-6L	USBLC6-4SC6Y ESD protection	
71	1	U16	STMicroelectronics	ESDA14V2SC5Y	SOT23-6L	ESDA14V2SC5Y ESD protection	
72	2	Y1,Y2	JFVNY	HC-49S-B20QTA-16.0000	quarzofox	16MHz (with socket) Crystal,16M,20PF,20PPM,-10-60 degree,DIP,HC-49S	not mounted
73	4	Dist1,Dist2,Dist3,Dist4	RICHCO	LCBSBM-10-01A2	MTHOLE3	distanziali 15mm	
74	6	ESD_TP1,ESD_TP2,ESD_TP3,ESD_TP4,ESD_TP6,ESD_TP7	Elettrocomponents	31100080005	Hole1m6plm	Test Terminal	