

PROJECT NAME: STEVAL-ISB027V1

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	2	C1 C2	10NF	CAP CER 10nF 50V X7R 0402	X7R		0402	MURATA	GRM155R71H103KA88D
2	1	C3	470PF	CAP CER 470PF 50V X7R 0402	X7R		0402		
3	2	C4 C5	6.8NF	CAP CER 6.8NF 50V X7R 0402	X7R		0402		
4	2	C7 C8	100NF	CAP CER 100nF 50V X5R 0402	X5R		0402		
5	2	C9 C17	47UF	CAP TANT 47uF 10V 10%	Tantalo	10%	SMD_B	KEMET	T491B476K010AT
6	4	C10 C11 C16 C29	10NF	CAP CER 10nF 50V X7R 0402	X7R		0402		
7	4	C12-C15	100NF	CAP CER 100nF -50V	COG		1206	MURATA	GRM31C5C1H104JA01L
8	5	C18 C20 C21 C24 C25	100NF	CAP CER 100nF 25V	X5R		0402		
9	1	C19	1UF	CAP CER 1UF 16V X5R 0402	X5R		0402		
10	1	C22	100PF	CAP CER 100pF 50V COG 0402	COG		0402		
11	1	C26	1NF	CAP CER 1nF 6V3 X5R 0402	X5R		0402		
12	1	C27	47PF	CAP CER 47pF 6V3 X5R 0402	X5R		0402		
13	1	C30	220PF	CAP CER 220pF 50V X7R 0402	X7R		0402		
14	2	C31 C32	100PF	CAP CER 100pF 50V X5R 0402	X5R		0402		
15	1	C33	33NF	CAP CER 33nF 50V X7R 0402	X7R		0402		
16	1	D3	6.2V	ZENER REGULATOR SOT23	SMD			Fairchild	BZX84C6V2
17	1	D4	RED	RED LEDC-0603	SMD		0603	WURTH ELEKTRONIK	150060RS75000
18	1	D5	GREEN	GREEN LEDC-0603	SMD		0603	WURTH ELEKTRONIK	150060VS75000
19	2	D6 D7	BAV99W	Double Diode High Speed Switching Diode					BAV99W
20	6	FIX1-FIX6	HOLE_3.2MM_6	Through Hole, drilled 3.2mm, Pad 6mm					HOLE_3.2MM_6
21	1	J3	STEREO	Jack Audio-3_5 FEMELLE -35RASMT2BHNTRX				Digi-Key	SC1489-1-ND
22	1	J4	SWIM_CONN	MOLEX - 90121-0764 - EMBASE 1 RANGEE 90 DEGRES COUDE 4 VOIES				MOLEX	90121-0764
23	1	J5	SWIM_CONN	MOLEX - 90121-0764 - EMBASE 1 RANGEE 90 DEGRES COUDE 4 VOIES				MOLEX	90121-0764
24	4	M4 M9 M11 M13	SPACER_5MM	PCB Round Spacer, Nylon 6.6, Natural				Duratool	D01475
25	4	M8 M10 M12 M14	SCREW_M3x12	Screw, Pozi, CSK, Steel, BZP, M3X12				Duratool	M312 KRSTMCZ100-
26	4	M15-M18	NUT_M3	Full Nut, Steel, BZP, M3				Duratool	M3- HFST-Z100-
27	3	MISC1-MISC3	OPTICAL_TARGET	OPTICAL_TARGET					OPTICAL_TARGET
28	2	Q5 Q6	BC847CDW1T1G	XSTR_GEN PURP,dual NPN,45V,100mA,225mW,SOT-363				ON SEMICONDUCTOR	BC847CDW1T1G
29	4	Q7 Q9 Q11 Q12	BC847BPDW1T1G	XSTR_GEN PURP,dual NPN/PNP,45V,100mA,225mW,SOT-363				ON SEMICONDUCTOR	BC847BPDW1T1G
30	5	R1 R15 R16 R44 R45	1K	RES 1K OHM 5% 1/16W 0402 SMD	SMD	5%	0402		
31	5	R2 R17 R48 R61 R62	1M	RES 1M OHM 1/16W 5% 0402 SMD	SMD	5%	0402		
32	1	R3	150K	RES 150K OHM 5% 1/16W 0402 SMD	SMD	5%	0402		
33	2	R4 R59	0R	RES 0 OHM 5% 1/16W 0402	SMD	5%	0402		
34	3	R5 R10 R11	33K	33K OHM 5% 1/16W	SMD	5%	0402		
35	10	R12 R13 R19 R30 R35 R36 R41 R46 R47 R49	100K	RES 100K OHM 5% 1/16W 0402 SMD	SMD	5%	0402		
36	1	R14	2.2K	RES 2.2KOHM 1/16W 5% 0402 SMD	SMD	5%	0402		
37	1	R22	0.022R	RES 0.022 ohm 2%	SMD	2%	805		
38	1	R24	270NH	INDUCTOR 270 NH 5% 100MA 0402	SMD	5%	0402	WURTH ELEKTRONIK	744784227A
39	1	R25	220K	RES 220K OHM 1% 1/16W 0402 SMD	SMD		0402		
40	1	R26	180K	RES 180K OHM 5% 1/16W 0402 SMD	SMD	5%	0402		
41	3	R27 R29 R58	10K	RES 10K OHM 5% 1/16W 0402 SMD	SMD	5%	0402		
42	1	R31	47K	RES 47K OHM 1% 1/16W 0402 SMD	SMD	1%	0402		
43	1	R34	1K	FERRITE BEAD1K 0.2A 0402	SMD		0402	MURATA	BLM15AG102SN1D
44	1	R38	50K	Temperature Measurement Probe Assemblies					198-955
45	2	R39 R40	1.8K	RES 1.8K OHM 1/16W 5% 0402 SMD	SMD	5%	0402		
46	1	R51	330R	330R OHM 5% 1/10W	SMD	5%	0402		
47	1	R52	22K	RES 22KOHM 1/16W 5% 0402 SMD	SMD	5%	0402		
48	3	R55-R57	470K	RES 470K OHM 5% 0402	SMD	5%	0402		
49	1	R60	470	RES 470 OHM 5% 0402	SMD	5%	0402		
50	2	U1 U2	FDS8858CZ Alternative part STS8C5H30L STL40C30H3LL	Dual Power Mosfet N & P Channel, 8.6A, 30V, 0.0205 ohm Dual Power MOSFET: N-channel 30 V, 0.018 Ohm typ., 8 A, P-channel 30 V, 0.045 Ohm typ., 5A Dual Power MOSFET: N-channel 30 V, 0.019 Ohm typ., 10 A, P-channel 30 V, 0.024 Ohm typ., 8 A				FAIRCHILD ST	FDS8858CZ Alternative part STS8C5H30L STL40C30H3LL
51	1	U3	STWBC	DIGITAL CONTROLLER			VFQFPN32	ST	STWBC
52	1	U4	LMV931	Single OpAmp, 1.5MHz, 1.8V, Rail-to-Rail			SC70-5	TI	LMV931
53	1		6.3 uH / 13A	Wireless Power Charging Transmitter Coil		10%		WURTH ELEKTRONIK	760308111
54	1			Polycarbonate cover 64x55x2mm					