

Document reference:	PCB reference:
Company:	STEVAL-IME009V1 (STHV800)
STMicroelectronics	

STEVAL-IME009V1

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Note
1	1	CN1	USB_minib			Molex	54819-0572	
2	4	C1, C2, C9, C10	22000n 100V	100V		TDK	CKG57NX7S2A226M	
3	1	C3	4.7nF	100V	SMD 0805	ANY		
4	2	C5,C6	22000n 16V	16V	TANTALIUM B	AVX	TAJB226K016RNJ	
5	1	C4	22000n 16V	16V	TANTALIUM B	AVX	TAJB226K016RNJ	
6	1	C7	1uF	6.3V	SMD 0402	TDK	C1005X5R0J105K	
7	1	C8	2.2uF 6.3V		SMD 0603	AVX	TACL225M006XTA	Check POLARITY
8	1	C11	33nF		SMD 0402	ANY		
9	2	C12,C13	4u7	6.3V	SMD 0603	Rohm	TCMQJ475M8R	Check POLARITY
10	1	C14	10u 10V 0805	10V	SMD 0805	AVX	TACR106K010RTA	Check POLARITY
11	2	C15,C18	100n 0402		SMD 0402	ANY		
12	7	C16, C17, C26, C27, C30, C31, C33	10uF 10V 0805	10V	SMD 0805	TDK	C2012X7R1A106K	
13	19	C19, C21, C22, C23, C24, C25, C28, C29, C32, C34, C62, C73,C119, C120, C121, C122,C124,C125,C126	100nF		SMD 0402	ANY		
14	1	C20	10nF		SMD 0402	ANY		
15	5	C35, C40, C51, C58, C66	100uF 6.3V 1206	6.3V	SMD 1206	Murata	GRM31CR0J107ME39L	
16	11	C36, C37, C38, C41, C42, C52, C53, C59, C60, C67, C68	4.7uF 6.3V 0603	6.3V	SMD 0603	TDK	C1608X5R0J475K	
17	24	C39, C43, C44, C45, C46, C47, C48, C49, C50, C54, C55, C56, C57, C61, C63, C64, C65, C69, C70, C71, C72, C83, C85, C87	0.22uF 6.3V 0402	6.3V	SMD 0402	ANY		
18	8	C74, C75,C76,C92,C114, C115,C117,C118	20p 1206		SMD 1206	ANY		
19	8	C77, C80, C81,C84,C111, C112,C113,C116	270p 100V 1206		SMD 1206	ANY		
20	18	C86, C88, C89, C90, C91,C95,C97,C101,CX1,CX2,CX3,CX4,CX5,CX6,CX7,CX8,CX9,CX10	220n	100V	SMD 0805	KEMET	C0805C224K1RACTU	
21	1	C123	1uF 6.3V		SMD 0402	TDK	C1005X5R0J105K	
22	1	D1	SM2T3V3A		DO-216AA	ST	SM2T3V3A	
23	7	D5, D24, D25, D26, D27, D28, D30	RED		SMD 0805	Kingbright	KP2012SURC	
24	16	D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21	YELLOW		SMD 1206	Kingbright	KP3216SYC	
25	1	D22	STTH102A		SMA		NOT ASSEMBLY	NOT ASSEMBLY
26	5	D2, D3, D4, D23, D29	GREEN		SMD 0805	Kingbright	KP2012MGC	
27	16	D31, D32, D33, D34, D35, D36, D37, D38,D39,D40,D41,D42,D43,D44,D45,D46	DFLS 1200				NOT ASSEMBLY	NOT ASSEMBLY
28	1	JP1	JUMPER		THR (spacing 2.54)	ANY		
29	5	J5, J35, J36, J37, J41	JUMPER		THR (spacing 2.54)	ANY	NOT ASSEMBLY	NOT ASSEMBLY
30	1	J1	HVP			Phoenix Contact	MKDS 1.5/3-5.08	
31	2	J2	LV			Phoenix Contact	MKDSN 1.5/2-5.08	
32	1	J3	HVM			Phoenix Contact	MKDS 1.5/3-5.08	
33	1	J4	3V3 Connector			Phoenix Contact	MPT 0.5/2-2.54	
34	2	J13	JUMPER		THR (spacing 2.54)	ANY		
35	1	J7	HEADER 16X2		THR (spacing 2.54)	ANY	NOT ASSEMBLY	NOT ASSEMBLY
36	2	J8, J9	HEADER 6X2		THR (spacing 2.54) Right Angle	ANY	NOT ASSEMBLY	NOT ASSEMBLY
37	1	J10	HEADER 10		THR (spacing 2.54)	ANY		
38	1	J11	CON14A		2.0mm 7x2 shrouded header		NOT ASSEMBLY	NOT ASSEMBLY
39	2	J12, J24	Header 3		THR (spacing 2.54)	ANY		
40	17	J14, J15, J16, J17, J18, J19, J20, J21, J27, J28, J29, J30, J31, J32, J33, J34, J38	JUMPER		THR (spacing 2.54)	ANY		
41	16	JCH1,JCH2,JCH3,JCH4,JCH5,JCH6,JCH7,JCH8,JLCH1,JLCH2,JLCH3,JLCH4,JLCH5,JLCH6,JLCH7,JLCH8	BNC			Tyco Electronics	1-1337482-0	

42	1	J40	SWD/JTAG (Male Connector 10 pin 2x5)		THR (spacing 1.27)	SAMTEC	FTSH-105-01-F-D-K	
43	1	L1		2.2uH		TDK	VL4012AT-2R2M1R5	
44	1	Q1		STR2N2VH5		ST		
45	1	RN1		RESISTOR DIP 4		SMD 1206	NOT ASSEMBLY	NOT ASSEMBLY
46	3	SW2, SW3, SW4		PUSHBUTTON LARGE				
47	3	RST1, RST2, SW5		PUSH BUTTON				
48	1	R1		1M		SMD 0603	ANY	
49	2	R2, R123		0		SMD 0402	ANY	
50	1	R47		0		SMD 0805	ANY	
51	21	R3, R4, R5, R8, R9, R16, R45, R46, R48, R49, R50, R58, R76, R77, R78, R79, R87, R120, R121, R122, R133		10K 0402		SMD 0402	ANY	
52	1	R6		10K 0402		SMD 0402	ANY	NOT ASSEMBLY
53	2	R7, R38		33R2		SMD 0402	ANY	
54	12	R10, R11, R12, R13, R51, R68, R81, R90, R124, R125, R127, R128		56R 0402		SMD 0402	ANY	
55	16	R14, R15, R19, R20, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34		68R 0402		SMD 0402	ANY	
56	2	R17, R22		2K43 0402		SMD 0402	ANY	
57	2	R18, R21		2K43 0402 N/A		SMD 0402	ANY	NOT ASSEMBLY
58	18	R39, R40, R69, R70, R71, R72, R73, R74, R75, R80, R82, R83, R84, R85, R86, R88, R89, R132		0R -N/A		SMD 0402	ANY	NOT ASSEMBLY
59	4	R41, R42, R43, R44		49R 0402		SMD 0402	ANY	NOT ASSEMBLY
60	1	R52		330 0402		SMD 0402	ANY	
61	8	R54, R55, R56, R61, R62, R63, R64, R65		100		SMD 2512	ANY	
62	1	R59		100k		SMD 0402	ANY	
63	5	R66, R67, R129, R130, R131		4K7		SMD 0402	ANY	
64	1	SW1		MMS228T		See Datasheet	KNITTER-SWITCH	MMS228T
65	3	TP1, TP2, TP3		TEST POINT		THR	Keystone Electronics	5001 (5000)
66	1	R126		10K 0402			ANY	
67	1	U1		USBUF02W6		See Datasheet	ST	
68	1	U2		LDS3985M33R		See Datasheet	ST	
69	1	U3		ST1S12G12R		See Datasheet	ST	
70	1	U4		XC6SLX16-3CSG324C		See Datasheet	XILINX	
71	1	U5		DS1088LU-66		See Datasheet	MAXIM	DS1088LU-66
72	1	U6		MC74VHC1G32DFT2G		See Datasheet	TI	
73	1	U7		SN74LVC1G08DCKR		See Datasheet	TI	
74	1	U8		STHV800L		See Datasheet	ST	
75	1	U9		N25Q032A13ESE40F		See Datasheet	MICRON	
76	1	U10		STM32F103C8T6		See Datasheet	ST	
77	1	Y1		Crystal Oscillator 8MHz			Murata	CSTCE8M00G55-R0
78	1	X1		Crystal Oscillator		See Datasheet	EPSON	SG-8003CE 66.00MHz NOT ASSEMBLY