

Document reference:	PCB reference: STEVAL-IME003V1 (ULTRASOUND)
Company: STMicroelectronics	

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
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		AVX	TAJB226K016RNJ
5	1	C4	22000n 16V	16V		AVX	TAJB226K016RNJ
5	1	C7	1uF	6.3V	SMD 0402	TDK	C1005X5R0J105K
6	1	C8	2.2uF 6.3V		SMD 0603	AVX	TACL225M006XTA
7	1	C11	33nF		SMD 0402	ANY	
8	2	C12,C13	4u7	6.3V	SMD 0603	Rohm	TCM0J475M8R
9	1	C14	10u 10V 0805	10V	SMD 0805	AVX	TACR106K010RTA
10	2	C15,C18	100n 0402		SMD 0402	ANY	
11	7	C16, C17, C26, C27, C30, C31, C33	10uF 10V 0805	10V	SMD 0805	TDK	C2012X7R1A106K
12	19	C19, C21, C22, C23, C24, C25, C28, C29, C32, C34, C62, C73, C116, C117, C118, C119, C120, C121, C122	100nF		SMD 0402	ANY	
13	1	C20	10nF		SMD 0402	ANY	
14	5	C35, C40, C51, C58, C66	100uF 6.3V 1206	6.3V	SMD 1206	Murata	GRM31CR0J107ME39L

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15	11	C36, C37, C38, C41, C42, C52, C53, C59, C60, C67, C68	4.7uF 6.3V 0603	6.3V	SMD 0603	TDK	C1608X5R0J475K
16	21	C39, C43, C44, C45, C46, C47, C48, C49, C50, C54, C55, C56, C57, C61, C63, C64, C65, C69, C70, C71, C72	0.22uF 6.3V 0402	6.3V	SMD 0402	ANY	
17	4	C74, C75, C114, C115	20p 1206		SMD 1206	ANY	
18	8	R54, R56, R60, R63, C77, C81, C110, C113	N/A		SMD 1206	N/A	
19	4	C76, C80, C111, C112	270p 100V 1206		SMD 1206	ANY	
20	6	C78, C79, C82, C83, C108, C109	220n		SMD 0402	ANY	
21	16	C86, C87, C88, C89, C90, C91, C94, C95, C96, C97, C100, C101, C102, C103, C104, C105	100n	100V	SMD 0603	TDK	CGA3E3X7S2A104K080A B
22	4	C84, C85, C106, C107	3.9n		SMD 0402	ANY	
23	4	C92, C93, C98, C99	22n		SMD 0402	ANY	
24	1	C123	1uF 6.3V		SMD 0402	TDK	C1005X5R0J105K
25	1	D1	SM2T3V3A		DO-216AA	ST	SM2T3V3A
26	7	D5, D24, D25, D26, D27, D28, D30	RED		SMD 0805	Kingbright	KP2012SURC

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27	16	D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21	YELLOW		SMD 0805	Kingbright	KP3216SYC
28	1	D22	STTH102A		SMA		NOT ASSEMBLY
29	5	D2, D3, D4, D23, D29	GREEN		SMD 0805	Kingbright	KP2012MGC
30	8	D31, D32, D33, D34, D35, D36, D37, D38	DFLS 1200				NOT ASSEMBLY
31	1	JP1	JUMPER		THR (spacing 2.54)	ANY	
32	4	J5, J35, J36, J37, J41	JUMPER		THR (spacing 2.54)	ANY	NOT ASSEMBLY
33	1	J1	HVP			Phoenix Contact	MKDS 1.5/3-5.08
34	2	J2	LV			Phoenix Contact	MKDSN 1.5/2-5.08
35	1	J3	HVM			Phoenix Contact	MKDS 1.5/3-5.08
36	1	J4	3V3 Connector			Phoenix Contact	MPT 0.5/2-2.54
37	2	J13	JUMPER		THR (spacing 2.54)	ANY	
38	1	J6	HEADER 17X2		THR (spacing 2.54)	ANY	NOT ASSEMBLY
39	1	J7	HEADER 16X2		THR (spacing 2.54)	ANY	NOT ASSEMBLY
40	2	J8, J9	HEADER 6X2		THR (spacing 2.54) Right Angle	ANY	NOT ASSEMBLY
41	1	J10	HEADER 10		THR (spacing 2.54)	ANY	
42	1	J11	CON14A		2.0mm 7x2 shrouded header		NOT ASSEMBLY
43	2	J12, J24	Header 3		THR (spacing 2.54)	ANY	
44	13	J14, J15, J18, J19, J20, J21, J27, J28, J31, J32, J33, J34, J38	JUMPER		THR (spacing 2.54)	ANY	
45	8	J16, J17, J22, J23, J25, J26, J29, J30	BNC			Tyco Electronics	1-1337482-0

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46	1	J40	SWD/JTAG (Male Connector 10 pin 2x5)		THR (spacing 1.27)	SAMTEC	FTSH-105-01-F-D-K
47	1	L1	2.2uH			TDK	VLF4012AT-2R2M1R5
48	1	Q1	STR2N2VH5			ST	
49	1	RN1	RESISTOR DIP 4		SMD 1206		NOT ASSEMBLY
50	3	SW2, SW3, SW4	PUSHBUTTON LARGE				
51	3	RST1, RST2, SW5	PUSH BUTTON				
52	1	R1	1M		SMD 0603	ANY	
53	2	R2, R123	0		SMD 0402	ANY	
54	1	R47	0		SMD 0805	ANY	
55	22	R3, R4, R5, R8, R9, R16, R45, R46, R48, R49, R50, R57, R58, R65, R76, R77, R78, R79, R87, R120, R121, R122	10K 0402		SMD 0402	ANY	
	1	R6	10K 0402		SMD 0402	ANY	NOT ASSEMBLY
55	2	R7, R38	33R2		SMD 0402	ANY	
56	12	R10, R11, R12, R13, R51, R68, R81, R90, R124, R125, R127, R128	56R 0402		SMD 0402	ANY	
57	16	R14, R15, R19, R20, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34	68R 0402		SMD 0402	ANY	
58	2	R17, R22	2K43 0402		SMD 0402	ANY	
60	2	R18, R21	2K43 0402 N/A		SMD 0402	ANY	NOT ASSEMBLY
61	18	R39, R40, R64, R69, R70, R71, R72, R73, R74, R75, R80, R82, R83, R84, R85, R86, R88, R89	0R - N/A		SMD 0402	ANY	NOT ASSEMBLY
64	4	R41, R42, R43, R44	49R 0402		SMD 0402	ANY	NOT ASSEMBLY
65	1	R52	330 0402		SMD 0402	ANY	
66	4	R53, R55, R61, R62	100		SMD 2512	ANY	
67	1	R59	100k		SMD 0402	ANY	
68	2	R66, R67	4K7		SMD 0402	ANY	
69	1	SW1	MMS228T		See Datasheet	KNITTER-SWITCH	MMS228T

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70	3	TP1,TP2,TP3	TEST POINT		THR	Keystone Electronics	5001 (5000)
71	1	R126	10K 0402			ANY	
72	1	U1	USBUF02W6		See Datasheet	ST	
74	1	U2	LDS3985M33R		See Datasheet	ST	
75	1	U3	ST1S12G12R		See Datasheet	ST	
76	1	U4	XC6SLX16-2CSG324C		See Datasheet	XILINX	
77	1	U5	DS1088LU-66		See Datasheet	MAXIM	DS1088LU-66
78	1	U6	MC74VHC1G32DFT2G		See Datasheet	TI	
79	1	U7	SN74LVC1G08DCKR		See Datasheet	TI	
80	1	U8	STHV748		See Datasheet	ST	
81	1	U9	N25Q032xSC		See Datasheet	MICRON	
82	1	U10	STM32F103C8T6		See Datasheet	ST	
83	1	Y3	Crystal Oscillator 8MHz			Murata	CSTCE8M00G55-R0
84	1	X1	Crystal Oscillator		See Datasheet	EPSON	SG-8003CE 66,00MHz NOT ASSEMBLY