

**X-NUCLEO-IKS01A2**

**BILL OF MATERIALS**

Quantity	Reference	Description	Part Number	Package	Manufacturer	Additional Notes
1	C1	CAP CER 0603 220nF 25V X7R 10%	C0603X224K4RACTU	C0603	KEMET Corporation	CAPACITOR
12	C2, C4, C5, C6, C8, C9, C11, C12, C13, C14, C16, C17	CAP CER 0603 100nF 25V X7R 10%	MC0603B104K250CT	C0603	MULTICOMP	CAPACITOR
2	C3, C15	CAP CER 0603 10uF 6.3V X5R 20%	MC0603X106M6R3CT	C0603	MULTICOMP	CAPACITOR
2	C7, C18	CAP CER 0603 2.2uF 25V X5R 10%	MC0603X225K100CT	C0603	MULTICOMP	CAPACITOR
1	C10	CAP CER 0805 4.7uF 16V X7R 10%	C2012X7R1C475K125AB	C0603	TDK Corporation	CAPACITOR
1	CN5	Extra-long 10 pins female-male strip, Header 10x1		HDR1X10 - SHIELD		Female side mounted to the top
2	CN6, CN9	Extra-long 8 pins female-male strip, Header 8x1		HDR1X8 - SHIELD	4UCON	Female side mounted to the top
1	CN8	Extra-long 6 pins female-male strip, Header 6x1		HDR1X6 - SHIELD		Female side mounted to the top
1	J1	DIL24 Socket	SPC15503	Socket DIL24 2.54	MULTICOMP	SOCKET DIL24
5	JP1, JP2, JP3, JP4, JP11	Header 1x2 pins, 2.54mm, straight, Header 2x1 + Shunt	M20-9990246	HDR1X2	HARWIN	HEADER 2x1
3	JP5, JP9, JP10	Header + Shunt	2211S-03G	HDR1X3	Generic Components	Header 3x1
1	JP6	Header + Shunt	90131-0126	HDR2X6	Generic Components	Header 6X2
2	JP7, JP8	Header + 2 shunts	2211S-04G	HDR1X4	Generic Components	Header 4x1
1	JP12	Header + Shunt	2211S-03G	HDR1X3	Generic Components	Header 3
6	R1, R2, R9, R10, R11, R12	RES 0603 4k7 1% 1/16W	MC0063W060314K7	R0603	MULTICOMP	RESISTOR
2	R3, R8	RES 0603 2k2 1% 1/16W	MC0063W060312K2	R0603	MULTICOMP	RESISTOR
1	R6	RES 0603 12k 5%	MC0063W0603512K	R0603	MULTICOMP	RESISTOR
1	R7	RES 0603 15k 5%	MC0063W0603515K	R0603	MULTICOMP	RESISTOR
24	SB1, SB2, SB5, SB6, SB7, SB9, SB10, SB11, SB12, SB13, SB16, SB18, SB19, SB20, SB21, SB22, SB23, SB24, SB25, SB26, SB27, SB28, SB29, SB32	R0603 0R, Solder Bridge		Solder_bridge_0603		
1	U1		LSM303AGR	LGA 2x2 12L	STMICROELECTRONICS	LSM303AGR
1	U2		LSM6DSL	LGA 2.5x3.0 14L	STMICROELECTRONICS	LSM6DSL
1	U3		HTS221	LGA 2x2 6L	STMICROELECTRONICS	HTS221
1	U4		LPS22HB	LGA 2x2 10L	STMICROELECTRONICS	LPS22HB
1	U5		LDK130M-R	SOT23-5	STMICROELECTRONICS	Adj V, 0.3A
2	U6, U7		ST2378E	SMD_TSSOP20_REFLOW	STMICROELECTRONICS	1.7 to 5.5V