



Bill of materials

Table 1. X-NUCLEO-ISO1A1 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	BD1	10OHM	Ferrite Beads WE-CBF	Würth Elektronik	7427927310
2	2	C1, C3	4700pF	Safety Capacitors 4700pF	Vishay	VY1472M63Y5UQ63V0
3	2	C10, C11	0.47uF	Multilayer Ceramic Capacitors	Würth Elektronik	885012206050
4	10	C13, C18, C19, C20, C21, C22, C23, C24, C25, C26	100nF	Multilayer Ceramic Capacitors	Würth Elektronik	885012206046
5	2	C2, C15	1uF	Multilayer Ceramic Capacitors	Würth Elektronik	885012207103
6	2	C16, C17	100nF	Multilayer Ceramic Capacitors	Würth Elektronik	885382206004
7	1	C4	10uF	Multilayer Ceramic Capacitors	Murata Electronics	GRM21BR61H106KE43K
8	1	C5	10uF	Multilayer Ceramic Capacitors, X5R	Murata Electronics	GRM21BR61C106KE15K
9	4	C6, C7, C8, C9	10nF	Multilayer Ceramic Capacitors	Würth Elektronik	885382206002
10	2	CN1, CN2		Headers & Wire Housings	Samtec	SSQ-119-04-L-D
11	1	CN3	465 VAC, 655 VDC	Headers & Wire Housings	Samtec	SSQ-110-03-L-S
12	2	CN4, CN6	465 VAC, 655 VDC	8 Position Receptacle Connector	Samtec	SSQ-108-03-L-S
13	1	CN5	5.1A	Headers & Wire Housings	Samtec	SSQ-106-03-L-S
14	1	D1, SMC	1.5kW(ESD)	ESD Suppressors / TVS Diodes	STMicroelectronics	SM15T33CA
15	6	D2, D3, D4, D5, D6, D7	20mA	Standard LEDs - SMD(Green)	Broadcom Limited	ASCKCG00-NW5X5020302
16	1	D8	20mA	Standard LEDs - SMD(Red)	Broadcom Limited	ASCKCR00-BU5V5020402
17	2	HW1, HW2	Jumper CAP	Jumper	Würth Elektronik	609002115121
18	1	J1	300VAC	Fixed Terminal Blocks	Würth Elektronik	691214110002
19	1	J2		Test Plugs & Test Jacks	Keystone Electronics	4952
20	1	J5	300VAC	Fixed Terminal Blocks	Würth Elektronik	691214110002
21	2	J6, J12	300VAC	Fixed Terminal Blocks	Würth Elektronik	691214110002
22	12	J8, J9, J10, J11, J18, J19, J20, J21, J22, J24, J26, J27		Headers & Wire Housings	Würth Elektronik	61300311121
23	1	R1	10OHM	Thin Film Resistors - SMD	Vishay	TNPW080510R0FEEA
24	8	R11, R14, R28, R29, R30, R31, R32, R33	220 kOhms	Thick Film Resistors - SMD	Vishay	RCS0603220KJNEA
25	2	R12, R16	10KOHM	Thick Film Resistors - SMD	Bourns	CMP0603AFX-1002ELF
26	1	R19	0Ohm	Thick Film Resistors - SMD	Vishay	CRCW06030000Z0EAHP
27	1	R2	12KOHM	Thin Film Resistors - SMD	Panasonic	ERA-3VEB1202V
28	2	R26, R27	150 OHM	Thin Film Chip Resistors	Vishay	MCT06030C1500FP500
29	4	R3, R13, R15	1KOHM	Thin Film Resistors - SMD	Vishay	CRCW06031K00DHEBP
30	2	R35, R36	0Ohm	Thick Film Resistors - SMD	Vishay	CRCW06030000Z0EAHP

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
31	2	R37, R38	220 kOhms	Thick Film Resistors - SMD	Vishay	RCS0603220KJNEA
32	1	R4	36KOHM	Thick Film Resistors - SMD	Panasonic	ERJ-H3EF3602V
33	2	R5, R10	7.5KOHM	Thin Film Resistors - SMD	Vishay	TNPW02017K50BEED
34	2	R6, R8	00hm	Thick Film Resistors - SMD	Vishay	CRCW06030000Z0EAHP
35	9	R7, R9, R17, R20, R21, R23, R24, R34	00hm	Thick Film Resistors - SMD	Vishay	CRCW06030000Z0EAHP
36	4	TP2, TP3, TP8, TP10		Test Plugs & Test Jacks	Harwin	S2761-46R
37	3	TP4, TP6, TP7		Test Plugs & Test Jacks	Harwin	S2761-46R
38	1	U1, QFN-16L		Self-powered digital input current limiter	STMicroelectronics	CLT03-2Q3
39	2	U2, U5, SO-8	3V	Digital Isolators	STMicroelectronics	STISO620TR
40	1	U3, VFQFPN 48L 8.0 X 6.0 X .90 PITCH	3.5A	HIGH-SIDE SWITCH	STMicroelectronics	IPS1025HQ-32
41	1	U4, PowerSSO 24	3.5A	Power Switch/Driver 1:1 N-Channel 5A PowerSSO-24	STMicroelectronics	IPS1025HTR-32
42	2	U6, U7, SO-8		Digital Isolators	STMicroelectronics	STISO621
43	1	U8, DFN6 3x3		LDO Voltage Regulators	STMicroelectronics	LDO40LPURY

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