

Bill of materials

Table 1. X-NUCLEO-DO40A1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	4	C1 C2 C3 C4	10nF, 0603 (1608 Metric), 50V, +/-10%	CAPACITOR CERAMIC SMD 0603	Würth Electronics Inc.	885012206089
2	8	C5 C6 C7 C8 C14 C15 C16 C17	100nF, 0603 (1608 Metric), 16V, +/-10%	CAPACITOR CERAMIC SMD 0603	Würth Electronics Inc.	885012206046
3	0	C9	47uF (N.M.), Radial, Can, 100V, +/-20%	CAP 47 UF 20% 100 V (not mounted)	Würth Electronics Inc.	860040875002
4	3	C10 C18 C19	2.2uF, 1210 (3225 Metric), 100V, +/-10%	CAP CER 2.2UF 100V X7R 1210	Würth Electronics Inc.	885012209071
5	0	C11 C12	4700pF, 1825 (4564 Metric), 3000V (3kV), +/-10%	CAP CER 4700PF 3KV X7R 1825 (not mounted)	Vishay Vitramon	HV1825Y472KXHATHV
6	1	C13	0.1uF, 0805 (2012 Metric), 100V, +/-10%	CAP CER 0.1UF 100V X7R 0805	Würth Electronics Inc.	885012207128
7	3	CN1 CN2 CN3	691214110002, 7.4X7 pitch 3.5	TERM BLK 2POS SIDE ENT 3.5MM PCB	Würth Electronics Inc.	691214110002
8	0	CN4	691214110002, 7.4X7 pitch 3.5	TERM BLK 2POS SIDE ENT 3.5MM PCB (not mounted)	Würth Electronics Inc.	691214110002
9	1	CN5	SSQ-110-04-F-S	CONN RCPT 10POS 0.1 GOLD PCB	Samtec Inc.	SSQ-110-04-F-S
10	2	CN6 CN9	SSQ-108-04-F-S	CONN RCPT 8POS 0.1 GOLD PCB	Samtec Inc.	SSQ-108-04-F-S
11	0	CN7 CN10	SSQ-119-04-L-D	CONN RCPT 38POS 0.1 GOLD PCB (not mounted)	Samtec Inc.	SSQ-119-04-L-D
12	1	CN8	SSQ-106-04-F-S	CONN RCPT 6POS 0.1 GOLD PCB	Samtec Inc.	SSQ-106-04-F-S
13	1	D5	STPS1H100A, DO-214AC, SMA, 1A	DIODE SCHOTTKY 100V 1A SMA	ST	STPS1H100A
14	0	D6	BAT48JFILM, SC-76, SOD-323, 750mV @ 200mA 350mA (DC)	DIODE SCHOTTKY 40V 350MA SOD323 (not mounted)	ST	BAT48JFILM
15	4	D1 D2 D3 D4	150060VS75000, 0603 (1608 Metric), 20mA	LED GREEN CLEAR 0603 SMD	Würth Electronics Inc.	150060VS75000

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
16	4	D7 D8 D9 D10	150060RS75000, 0603 (1608 Metric), 20mA	LED RED CLEAR 0603 SMD	Würth Electronics Inc.	150060RS75000
17	4	J1 J2 J5 J46	JUMPER-con2-strip-male	JUMPER-CONN HEADER .100 STR 2POS	Würth Electronics Inc.	61300211121
18	0	J3	JUMPER-con2-strip-male	JUMPER-CONN HEADER .100 STR 2POS	Würth Electronics Inc.	61300211121
19	1	J4	con8-2x4-strip-male	CONN HEADER .100 DUAL STR 8POS	Würth Electronics Inc.	61300821121
20	6	R1 R2 R3 R4 R5 R6	220k 0603 (1608 Metric) 0.1W, 1/10W 1%	CHIP RESISTOR SMD 1% 1/10W 0603	ANY	ANY
21	8	R7 R8 R9 R10 R11 R12 R13 R14	15k 0603 (1608 Metric) 0.1W, 1/10W 1%	CHIP RESISTOR SMD 1% 1/10W 0603	ANY	ANY
22	12	R101 R102 R103 R104 R107 R108 R110 R113 R114 R115 R116 R120	100, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 100 OHM 1% 1/10W 0603	ANY	ANY
23	0	R105 R106 R109 R111 R112 R117 R118 R119	100, 0603 (1608 Metric), 0.1W, 1/10W, +/-1%	RES SMD 100 OHM 1% 1/10W 0603	ANY	ANY
24	5	SW1 SW2 SW3 SW4 SW5	con3-strip-male	CONN HEADER VERT 3POS 2.54MM MALE	Würth Elektronik	61300311121
25	1	TP1	5001 0.100" Dia x 0.180" L (2.54mm x 4.57mm)	TEST POINT PC MINI .040"D BLACK	Keystone Electronics	5001
26	1	U1	IPS4140HQ QFN48L (8x6 mm)	QUAD HIGH-SIDE INTELLIGENT POWER	ST	IPS4140HQ
27	1	U2	SMC30J30CA, SMC, 3kW	TVS DIODE 33.3V 48.4V SMC	ST	SMC30J30CA
28	4	U3 U4 U5 U6	STISO621, 8-SOIC (0.268", 6.81mm Width)	Dual Channel Digital Isolator	ST	STISO621
29	0	U7	ESDA15P60-1U1 M, 2-UDFN	TVS DIODE 13.2V 22.7V 1610 (not mounted)	ST	ESDA15P60-1U1M
30	1	U8	LDO40LPU33	400 mA, 38 V low-dropout regulator	ST	LDO40L
31	13	N/A	Shunt, 2.54mm	Close jumper	Würth Electronics Inc.	60900213421

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