

Bill of materials

Table 1. X-NUCLEO-NFC09A1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	5	C100, C203, C207, C209, C211	2.2 uF 0402 6.3 V 20 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 2.2UF 6.3V 20% 0402	MURATA	GRM155R60J225ME15D
2	2	C200, C215	1.0 uF 0402 16 V 10 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1.0UF 16V 10% 0402	MURATA	GRM155R61C105KA12D
3	6	C201, C202, C206, C208, C210, C213	0.01 uF 0402 25 V 10 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 25V 0.01uF X7R 0402 10%	AVX	04023C103KAT2A
4	2	C204, C205	10 p C0G 0402 50 V 1 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 10 p 50 V C0G 0402	MURATA	GRM1555C1H100GA01D
5	2	C212, C216	0.1 uF 0402 10 V 10 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0.1 uF 10 V X5R 0402	MULTICOMP	MC0402X104K100CT
6	1	C214	4.7 uF 0402 10 V 20 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 4.7 uF 10 V X5R 0402	MURATA	GRM155R61A475MEAA
7	2	C217, C218	5P6 C0G		MURATA	GRM1555C1H5R6BA01D
8	2	C300, C313	150 pF 0603 50 V 2 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 150 pF 50 V C0G 0402	MURATA	GRM1885C1H151GA01D
9	2	C301, C311	12 pF 0603 50 V 2 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 12 pF 50 V C0G 0603	YAGEO	CQ0603GRNPO9BN120
10	2	C302, C312	10 pF 0603 50 V 1 %	CERAMIC CAPACITOR 10PF 50V, C0G, 1%, 0603,	MULTICOMP	MC0603N100F500CT
11	2	C303, C310	82 pF 0603 50 V 1 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 82PF 50V 1% 0603	MURATA	GRM1885C1H820FA01D
12	2	C304, C307	680 pF 0603 50 V 2 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 680 PF 50V C0G 2% 0603	MURATA	GRM1885C1H681GA01D
13	2	C305, C308	5.6 pF 0603 50 V 5 %	Multilayer Ceramic Capacitors MLCC	MURATA	GRM0335C1H5R6CA01D

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
				- SMD/SMT 5.6 PF 50V NP0 5% 0603		
14	2	C306, C309	120 pF 0603 50 V 2 %	Multilayer Ceramic Capacitors MLCC - SMD/SMT 120 PF 50V NP0 2% 0603	MURATA	GCM1885C1H121FA16D
15	1	CN5		Header, 10-Pin, Single row,female	SAMTEC	SSQ-110-03-L-S
16	2	CN6, CN9		Header, 8-Pin, Single row,female	SAMTEC	SSQ-108-03-L-S
17	1	CN8		Header, 6-Pin, Single row,female	SAMTEC	SSQ-106-03-L-S
18	2	J300, J304	0 Ohm 0402 0.1 %	Thin Film Resistors 100mW ZEROhm Jumper	VISHAY	MCS04020Z0000ZE000
19	2	J302, J303		HE14 Male Vertical Single Row 2 pin 2.54MM (NOT MOUNTED)	MOLEX	22-28-5020
20	1	L200	120 Ohm 0402	Ferrite Beads 120 OHM 25%	MURATA	BLM15PD121SN1D
21	2	L300, L301	270 nH 0603 2 %	Fixed Inductors 0603 270nH Unshld 2% 300mOhms AEC-Q200	COILCRAFT	0603LS-271XGLB
22	1	LED100	0603 2V	Standard LEDs - SMD Green Clear 571nm	LITE-ON	LTST-C190KGKT
23	6	LED101, LED102, LED103, LED104, LED105, LED106	0603 2V	Standard LEDs - SMD Blue Clear 470nm	LITE-ON	LTST-C190TBKT
24	2	P200, P201		RF Connectors / Coaxial Connectors U.FL RECEPTACLE SMT GLD M CONT REEL (NOT MOUNTED)	HIROSE(HRS)	U.FL-R-SMT(10)
25	1	R100	680 Ohm 0402 5 %	Thick Film Resistors - SMD 680 Ohms 62.5mW 0402 5%	YAGEO	RC0402JR-07680RL
26	6	R101, R102, R103, R104, R105, R106	1K Ohm 0402 5 %	Thick Film Resistors - SMD 0402 1Kohms 5% AEC-Q200	PANASONIC	ERJ2GEJ102X
27	6	R108, R203, R204, R205, R206, R207	0 Ohm 0402 5 %	Thin Film Resistors 100mW ZERO ohm	VISHAY	MCS04020Z0000ZE000
28	1	R208	0.1 Ohm 0603 0.5 %	Current Sense Resistors - SMD	OHMITE	KDV06DR100ET

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
				0.1 ohm 0603 0.5% 0.20W		
29	1	R209	10k Ohm 0402 1%	Thick Film Resistors - SMD 10 kOhms 62.5 mW 0402 1% AEC-Q200	YAGEO	AC0402FR-7W10KL
30	1	R210	330k Ohm 0402 1%	Thin Film Resistors - SMD .1W 330Kohms .1% 0402 25ppm	VISHAY	CRCW0402330KFKEDC
31	2	R211, R212	0 Ohm 0402 0.1%	Thin Film Resistors 100mW ZERO ohm (NOT MOUNTED)	VISHAY	MCS04020Z0000ZE000
32	2	R300, R301	2.2 Ohm 0603 1%	Thick Film Resistors - SMD 2.2 Ohms 100 mW 0603 1% AEC-Q200	YAGEO	AC0603FR-072R2L
33	1	R304	0 Ohm 0603 1%	Thick Film Resistors - SMD 0 Ohms 100mW 0603 1% AEC-Q200	YAGEO	AC0603FR-070RL
34	1	S200		Tactile Switches 3.5x2.9mm Right Ang Light Touch Switch (NOT MOUNTED)	PANASONIC	EVQ-P7C01P
35	11	ST1, ST2, ST3, ST4, ST7, ST8, ST9, ST15, ST16, ST17, ST18		CONN HE14 2PTS MALE VERTICAL (NOT MOUNTED)	TEST POINT	
36	6	ST5, ST10, ST11, ST12, ST13, ST14		CONN HE14 2PTS MALE VERTICAL (NOT MOUNTED)	TEST POINT	
37	1	ST6		CONN HE14 2PTS MALE VERTICAL (NOT MOUNTED)	TEST POINT	
38	2	ST19, ST20		CONN HE14 2PTS MALE VERTICAL (NOT MOUNTED)	TEST POINT	
39	1	U200		HF READER ST25R200 QFN24	ST	ST25R100
40	1	Y200		CRYSTAL 27.1200MHZ 10PF SMD	NDK AMERICA	NX2016SA-27.12MHZ-EXS00A-CS01188

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