

Bill of materials
Table 1. X-NUCLEO-NFC08A1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	6	C100, C205, C207, C210, C212, C216	2.2 uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 2.2UF 6.3V 20% 0402	MURATA	GRM155R60J225ME15D
2	1	C200	1.0 uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 1.0UF 16V 10% 0402	MURATA	GRM155R61C105KA12D
3	7	C201, C204, C206, C208, C209, C211, C215	0.01 uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 25V 0.01uF X7R 0402 10%	AVX	04023C103KAT2A
4	1	C202	0.022 uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 16V 0.022uF X7R 0402 10%	AVX	0402YC223KAT2A
5	4	C213, C214, C301, C312	10 pF	CERAMIC CAPACITOR 10PF 50V, C0G, 1%, 0603,	MULTICOMP	MC0603N100F500CT
6	2	C300, C313	180 pF	180 pF ±2% 50V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)	MURATA	GRM1885C1H181GA01D
7	3	C302, C311, C314		Trimmer/Variable Capacitors NFC Variable Capacitor	muRata	LXRW0YV600-054
8	2	C303, C310	100 pF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 100 pF 50V C0G	MURATA	GRM1885C1H101FA01D
9	2	C305, C308	680 pF	680 pF ±2% 50V Ceramic Capacitor C0G, NP0 0603 (1608 Metric)	MURATA	GRM1885C1H681GA01D
10	2	C306, C309	56 pF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 56PF 50V 1% 0603	MURATA	GRM1885C1H560FA01D
11	3	C315, C316, C317	47 pF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 47PF 50V 1% 0603	MURATA	GRM1885C1H470FA01D
12	1	CN5		Header, 10-Pin, Single row,female	Samtec	SSQ-110-03-L-S
13	2	CN6, CN9		Header, 8-Pin, Single row,female	Samtec	SSQ-108-03-L-S

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
14	1	CN8		Header, 6-Pin, Single row,female	Samtec	SSQ-106-03-L-S
15	1	D300		Diodes - General Purpose, Power, Switching Small Signal Diode, SOT-323, 100V, 0.17A, 4ns	DIODES INC	BAV70W
16	1	J300		HE14 Male Vertical Single Row 2 pin 2.54MM	Molex	22-28-5020
17	2	L300, L301	270 nH	Fixed Inductors 270nH 0.22ohms 650mA 5% 260MHz	TDK	MLJ1608WR27JT000
18	1	LED100		Standard LEDs - SMD Green Clear 571nm	Lite-On	LTST-C190KGKT
19	6	LED101, LED102, LED103, LED104, LED105, LED106		Standard LEDs - SMD Blue Clear 470nm	Lite-On	LTST-C190TBKT
20	1	Q300		MOSFET 30V 400 MA N-CH TRENCH MOSFET	Nexperia	NX3008NBK
21	1	R100	680 Ohms	Thick Film Resistors - SMD 680 Ohms 62.5mW 0402 5%	Yageo	RC0402JR-07680RL
22	6	R101, R102, R103, R104, R105, R106	1k Ohms	Thick Film Resistors - SMD 0402 1Kohms 5% AEC- Q200	Panasonic	ERJ2GEJ102X
23	1	R205	0 Ohm	Resistor, Thick Film, 0R, 0.063W, 0402	MULTICOMP	MC00625W040210R
24	2	R300, R302	2.4 Ohm	Resistor, Thick Film, 2.4 Ohm, 0.063W, 0603	KOA	RK73H1JT2D2R40F
25	1	R301	100 Ohm	Resistor, Thick Film, 100 Ohm, 0.063W, 0402	BOURNS	CR0402-FX-1000GLF
26	1	R303	47k Ohms	Resistor, Thick Film, 47K Ohm, 0.063W, 0402	VISHAY	CRCW040247K0FKED
27	1	R304	0 Ohm	Resistor, Thick Film, 0 Ohm, 0603	VISHAY	CRCW06030000Z0EB
28	1	U200	ST25R3916B- AQET, UFQFPN 32 5x5x0.55 mm	NFC Reader	ST	ST25R3916B-AQET
29	1	Y200		Crystals CRYSTAL 27.12MHZ 10PF SMD	NDK	NX2016SA-27.12MHZ- EXS00A-CS06346

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