

FEATURES

- HIGH Q FOR RF APPLICATIONS
- STABLE NPO CHARACTERISTICS OVER TEMPERATURE AND VOLTAGE
- HIGH VOLTAGE (UP TO 250VDC)
- EIA 0201, 0402 AND 0603 CASE SIZES
- IDEAL FOR WIRELESS DATA AND VOICE COMMUNICATIONS APPLICATIONS
WLANs, HIPERLAN, 802.11A, 802.11B, Wi-Fi, BLUETOOTH, TELEMATICS, PCS, LMDS AND CELLULAR



SPECIFICATIONS	NPO
Capacitance Range	0.1pF ~ 47pF
Capacitance Tolerance	±0.05pF(A), ±0.1pF(B), ±0.25pF(C), ±0.5pF(D) ±1%(F), ±2%(G), ±5%(J)
Operating Temperature Range	-55°C ~ +125°C
Temperature Characteristics	0 ± 30PPM/°C
Rated Voltage	6.3Vdc, 10Vdc, 25Vdc, 50Vdc, 100Vdc & 250Vdc
Q Factor	0201 & 0402 Q _≥ 400+20C (1MHz, +25°C) 0603 C<30pF Q _≥ 800+20C, C ≥30pF Q _≥ 1000
Insulation Resistance	10,000 Megohms min. @ +25°C
Dielectric Withstanding Voltage	100V < X 2.5RV, 250V x 2RV for 5 ± 1 seconds

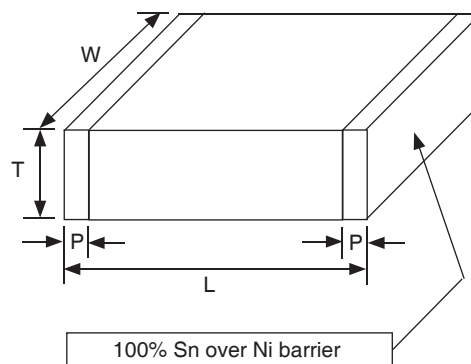
RoHS Compliant

Includes all homogeneous materials

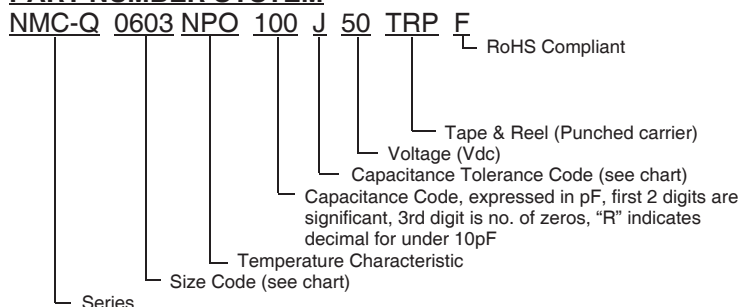
*See Part Number System for Details

DIMENSIONS (mm)

EIA Case Size	0201	0402	0603
Length (L)	0.6 ± 0.03	1.0 ± 0.05	1.6 ± 0.10
Width (W)	0.3 ± 0.03	0.5 ± 0.05	0.8 ± 0.10
Thickness (T)	0.33 max.	0.55 max.	0.87 max.
Termination Width (P)	0.10 ~ 0.20	0.15 ~ 0.30	0.25 ~ 0.55



PART NUMBER SYSTEM



0201 6.3 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO0R1_6.3TRPF	0.1	B	400	2.20
NMC-Q0201NPO0R2_6.3TRPF	0.2	A, B	400	1.80
NMC-Q0201NPO0R3_6.3TRPF	0.3	A, B	400	0.95
NMC-Q0201NPO0R4_6.3TRPF	0.4	A, B	400	0.75
NMC-Q0201NPO0R5_6.3TRPF	0.5	A, B, C	400	0.50
NMC-Q0201NPO0R6_6.3TRPF	0.6	A, B, C	400	0.45
NMC-Q0201NPO0R7_6.3TRPF	0.7	A, B, C	400	0.40
NMC-Q0201NPO0R8_6.3TRPF	0.8	A, B, C	400	0.40
NMC-Q0201NPO0R9_6.3TRPF	0.9	A, B, C	400	0.35
NMC-Q0201NPO1R0_6.3TRPF	1.0	A, B, C	400	0.35
NMC-Q0201NPO1R1_6.3TRPF	1.1	A, B, C	400	0.35
NMC-Q0201NPO1R2_6.3TRPF	1.2	A, B, C	400	0.35
NMC-Q0201NPO1R3_6.3TRPF	1.3	A, B, C	400	0.35
NMC-Q0201NPO1R4_6.3TRPF	1.4	A, B, C	400	0.35
NMC-Q0201NPO1R5_6.3TRPF	1.5	A, B, C	400	0.30
NMC-Q0201NPO1R6_6.3TRPF	1.6	A, B, C	400	0.30
NMC-Q0201NPO1R7_6.3TRPF	1.7	A, B, C	400	0.30
NMC-Q0201NPO1R8_6.3TRPF	1.8	A, B, C	400	0.30
NMC-Q0201NPO1R9_6.3TRPF	1.9	A, B, C	400	0.30
NMC-Q0201NPO2R0_6.3TRPF	2.0	A, B, C	400	0.30
NMC-Q0201NPO2R1_6.3TRPF	2.1	A, B, C	400	0.30
NMC-Q0201NPO2R2_6.3TRPF	2.2	A, B, C	400	0.25
NMC-Q0201NPO2R3_6.3TRPF	2.3	A, B, C	400	0.25
NMC-Q0201NPO2R4_6.3TRPF	2.4	A, B, C	400	0.25
NMC-Q0201NPO2R5_6.3TRPF	2.5	A, B, C	400	0.25
NMC-Q0201NPO2R6_6.3TRPF	2.6	A, B, C	400	0.25
NMC-Q0201NPO2R7_6.3TRPF	2.7	A, B, C	400	0.25
NMC-Q0201NPO2R8_6.3TRPF	2.8	A, B, C	400	0.25
NMC-Q0201NPO2R9_6.3TRPF	2.9	A, B, C	400	0.25
NMC-Q0201NPO3R0_6.3TRPF	3.0	A, B, C	400	0.25
NMC-Q0201NPO3R1_6.3TRPF	3.1	A, B, C	400	0.25
NMC-Q0201NPO3R2_6.3TRPF	3.2	A, B, C	400	0.25
NMC-Q0201NPO3R3_6.3TRPF	3.3	A, B, C	400	0.25
NMC-Q0201NPO3R4_6.3TRPF	3.4	A, B, C	400	0.25
NMC-Q0201NPO3R5_6.3TRPF	3.5	A, B, C	400	0.25
NMC-Q0201NPO3R6_6.3TRPF	3.6	A, B, C	400	0.25
NMC-Q0201NPO3R7_6.3TRPF	3.7	A, B, C	400	0.25
NMC-Q0201NPO3R8_6.3TRPF	3.8	A, B, C	400	0.25
NMC-Q0201NPO3R9_6.3TRPF	3.9	A, B, C	400	0.20
NMC-Q0201NPO4R0_6.3TRPF	4.0	A, B, C	400	0.20
NMC-Q0201NPO4R1_6.3TRPF	4.1	A, B, C	400	0.20
NMC-Q0201NPO4R2_6.3TRPF	4.2	A, B, C	400	0.20
NMC-Q0201NPO4R3_6.3TRPF	4.3	A, B, C	400	0.20
NMC-Q0201NPO4R4_6.3TRPF	4.4	A, B, C	400	0.20
NMC-Q0201NPO4R5_6.3TRPF	4.5	A, B, C	400	0.20
NMC-Q0201NPO4R6_6.3TRPF	4.6	A, B, C	400	0.20
NMC-Q0201NPO4R7_6.3TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R7_6.3TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R8_6.3TRPF	4.8	A, B, C	400	0.20
NMC-Q0201NPO4R9_6.3TRPF	4.9	A, B, C	400	0.20
NMC-Q0201NPO5R1_6.3TRPF	5.1	A, B, C	400	0.20

*Typical Q & ESR



0201 6.3 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO5R2_6.3TRPF	5.2	A, B, C	400	0.20
NMC-Q0201NPO5R3_6.3TRPF	5.3	A, B, C	400	0.20
NMC-Q0201NPO5R4_6.3TRPF	5.4	A, B, C	400	0.20
NMC-Q0201NPO5R6_6.3TRPF	5.6	B, C, D	350	0.15
NMC-Q0201NPO5R7_6.3TRPF	5.7	B, C, D	350	0.15
NMC-Q0201NPO5R9_6.3TRPF	5.9	B, C, D	350	0.15
NMC-Q0201NPO6R0_6.3TRPF	6.0	B, C, D	350	0.15
NMC-Q0201NPO6R1_6.3TRPF	6.1	B, C, D	350	0.15
NMC-Q0201NPO6R2_6.3TRPF	6.2	B, C, D	350	0.15
NMC-Q0201NPO6R3_6.3TRPF	6.3	B, C, D	350	0.15
NMC-Q0201NPO6R4_6.3TRPF	6.4	B, C, D	350	0.15
NMC-Q0201NPO6R6_6.3TRPF	6.6	B, C, D	350	0.15
NMC-Q0201NPO6R8_6.3TRPF	6.8	B, C, D	350	0.15
NMC-Q0201NPO6R9_6.3TRPF	6.9	B, C, D	350	0.15
NMC-Q0201NPO7R0_6.3TRPF	7.0	B, C, D	350	0.15
NMC-Q0201NPO7R1_6.3TRPF	7.1	B, C, D	350	0.15
NMC-Q0201NPO7.2_6.3TRPF	7.2	B, C, D	350	0.15
NMC-Q0201NPO7R3_6.3TRPF	7.3	B, C, D	350	0.15
NMC-Q0201NPO7R4_6.3TRPF	7.4	B, C, D	350	0.15
NMC-Q0201NPO7R5_6.3TRPF	7.5	B, C, D	350	0.15
NMC-Q0201NPO7R6_6.3TRPF	7.6	B, C, D	350	0.15
NMC-Q0201NPO7R7_6.3TRPF	7.7	B, C, D	350	0.15
NMC-Q0201NPO7R8_6.3TRPF	7.8	B, C, D	350	0.15
NMC-Q0201NPO8R0_6.3TRPF	8.0	B, C, D	350	0.15
NMC-Q0201NPO8R1_6.3TRPF	8.1	B, C, D	300	0.15
NMC-Q0201NPO8R2_6.3TRPF	8.2	B, C, D	300	0.15
NMC-Q0201NPO8R3_6.3TRPF	8.3	B, C, D	300	0.15
NMC-Q0201NPO8R4_6.3TRPF	8.4	B, C, D	300	0.15
NMC-Q0201NPO8R5_6.3TRPF	8.5	B, C, D	300	0.15
NMC-Q0201NPO8R6_6.3TRPF	8.6	B, C, D	300	0.15
NMC-Q0201NPO8R7_6.3TRPF	8.7	B, C, D	300	0.15
NMC-Q0201NPO8R8_6.3TRPF	8.8	B, C, D	300	0.15
NMC-Q0201NPO8R9_6.3TRPF	8.9	B, C, D	300	0.15
NMC-Q0201NPO9R0_6.3TRPF	9.0	B, C, D	300	0.15
NMC-Q0201NPO9R1_6.3TRPF	9.1	B, C, D	300	0.15
NMC-Q0201NPO9R2_6.3TRPF	9.2	B, C, D	300	0.15
NMC-Q0201NPO9R3_6.3TRPF	9.3	B, C, D	300	0.15
NMC-Q0201NPO9R4_6.3TRPF	9.4	B, C, D	300	0.15
NMC-Q0201NPO9R5_6.3TRPF	9.5	B, C, D	300	0.15
NMC-Q0201NPO9R6_6.3TRPF	9.6	B, C, D	300	0.15
NMC-Q0201NPO9R7_6.3TRPF	9.7	B, C, D	300	0.15
NMC-Q0201NPO9R8_6.3TRPF	9.8	B, C, D	300	0.15
NMC-Q0201NPO9R9_6.3TRPF	9.9	B, C, D	300	0.15
NMC-Q0201NPO100_6.3TRPF	10	F, G, J	300	0.10
NMC-Q0201NPO110_6.3TRPF	11	F, G, J	300	0.10
NMC-Q0201NPO120_6.3TRPF	12	F, G, J	300	0.10
NMC-Q0201NPO130_6.3TRPF	13	F, G, J	300	0.10
NMC-Q0201NPO150_6.3TRPF	15	F, G, J	250	0.10
NMC-Q0201NPO160_6.3TRPF	16	F, G, J	300	0.10
NMC-Q0201NPO180_6.3TRPF	18	F, G, J	250	0.10
NMC-Q0201NPO200_6.3TRPF	20	F, G, J	250	0.10
NMC-Q0201NPO220_6.3TRPF	22	F, G, J	250	0.10

*Typical Q & ESR



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NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO240_6.3TRPF	24	F, G, J	250	0.10
NMC-Q0201NPO270_6.3TRPF	27	F, G, J	250	0.10
NMC-Q0201NPO300_6.3TRPF	30	F, G, J	250	0.10
NMC-Q0201NPO330_6.3TRPF	33	F, G, J	250	0.10

*Typical Q & ESR

0201 10 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO0R1_10TRPF	0.1	B	400	2.20
NMC-Q0201NPO0R2_10TRPF	0.2	A, B	400	1.80
NMC-Q0201NPO0R3_10TRPF	0.3	A, B	400	0.95
NMC-Q0201NPO0R4_10TRPF	0.4	A, B	400	0.75
NMC-Q0201NPO0R5_10TRPF	0.5	A, B, C	400	0.50
NMC-Q0201NPO0R6_10TRPF	0.6	A, B, C	400	0.45
NMC-Q0201NPO0R7_10TRPF	0.7	A, B, C	400	0.40
NMC-Q0201NPO0R8_10TRPF	0.8	A, B, C	400	0.40
NMC-Q0201NPO0R9_10TRPF	0.9	A, B, C	400	0.35
NMC-Q0201NPO1R0_10TRPF	1.0	A, B, C	400	0.35
NMC-Q0201NPO1R1_10TRPF	1.1	A, B, C	400	0.35
NMC-Q0201NPO1R2_10TRPF	1.2	A, B, C	400	0.35
NMC-Q0201NPO1R3_10TRPF	1.3	A, B, C	400	0.35
NMC-Q0201NPO1R4_10TRPF	1.4	A, B, C	400	0.35
NMC-Q0201NPO1R5_10TRPF	1.5	A, B, C	400	0.30
NMC-Q0201NPO1R6_10TRPF	1.6	A, B, C	400	0.30
NMC-Q0201NPO1R7_10TRPF	1.7	A, B, C	400	0.30
NMC-Q0201NPO1R8_10TRPF	1.8	A, B, C	400	0.30
NMC-Q0201NPO1R9_10TRPF	1.9	A, B, C	400	0.30
NMC-Q0201NPO2R0_10TRPF	2.0	A, B, C	400	0.30
NMC-Q0201NPO2R1_10TRPF	2.1	A, B, C	400	0.30
NMC-Q0201NPO2R2_10TRPF	2.2	A, B, C	400	0.25
NMC-Q0201NPO2R3_10TRPF	2.3	A, B, C	400	0.25
NMC-Q0201NPO2R4_10TRPF	2.4	A, B, C	400	0.25
NMC-Q0201NPO2R5_10TRPF	2.5	A, B, C	400	0.25
NMC-Q0201NPO2R6_10TRPF	2.6	A, B, C	400	0.25
NMC-Q0201NPO2R7_10TRPF	2.7	A, B, C	400	0.25
NMC-Q0201NPO2R8_10TRPF	2.8	A, B, C	400	0.25
NMC-Q0201NPO2R9_10TRPF	2.9	A, B, C	400	0.25
NMC-Q0201NPO3R0_10TRPF	3.0	A, B, C	400	0.25
NMC-Q0201NPO3R1_10TRPF	3.1	A, B, C	400	0.25
NMC-Q0201NPO3R2_10TRPF	3.2	A, B, C	400	0.25
NMC-Q0201NPO3R3_10TRPF	3.3	A, B, C	400	0.25
NMC-Q0201NPO3R4_10TRPF	3.4	A, B, C	400	0.25
NMC-Q0201NPO3R5_10TRPF	3.5	A, B, C	400	0.25
NMC-Q0201NPO3R6_10TRPF	3.6	A, B, C	400	0.25
NMC-Q0201NPO3R7_10TRPF	3.7	A, B, C	400	0.25
NMC-Q0201NPO3R8_10TRPF	3.8	A, B, C	400	0.25
NMC-Q0201NPO3R9_10TRPF	3.9	A, B, C	400	0.20
NMC-Q0201NPO4R0_10TRPF	4.0	A, B, C	400	0.20
NMC-Q0201NPO4R1_10TRPF	4.1	A, B, C	400	0.20
NMC-Q0201NPO4R2_10TRPF	4.2	A, B, C	400	0.20
NMC-Q0201NPO4R3_10TRPF	4.3	A, B, C	400	0.20
NMC-Q0201NPO4R4_10TRPF	4.4	A, B, C	400	0.20
NMC-Q0201NPO4R5_10TRPF	4.5	A, B, C	400	0.20
NMC-Q0201NPO4R6_10TRPF	4.6	A, B, C	400	0.20
NMC-Q0201NPO4R7_10TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R7_10TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R8_10TRPF	4.8	A, B, C	400	0.20
NMC-Q0201NPO4R9_10TRPF	4.9	A, B, C	400	0.20
NMC-Q0201NPO5R1_10TRPF	5.1	A, B, C	400	0.20

*Typical Q & ESR



0201 10 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO5R2_10TRPF	5.2	A, B, C	400	0.20
NMC-Q0201NPO5R3_10TRPF	5.3	A, B, C	400	0.20
NMC-Q0201NPO5R4_10TRPF	5.4	A, B, C	400	0.20
NMC-Q0201NPO5R6_10TRPF	5.6	B, C, D	350	0.15
NMC-Q0201NPO5R7_10TRPF	5.7	B, C, D	350	0.15
NMC-Q0201NPO5R9_10TRPF	5.9	B, C, D	350	0.15
NMC-Q0201NPO6R0_10TRPF	6.0	B, C, D	350	0.15
NMC-Q0201NPO6R1_10TRPF	6.1	B, C, D	350	0.15
NMC-Q0201NPO6R2_10TRPF	6.2	B, C, D	350	0.15
NMC-Q0201NPO6R3_10TRPF	6.3	B, C, D	350	0.15
NMC-Q0201NPO6R4_10TRPF	6.4	B, C, D	350	0.15
NMC-Q0201NPO6R6_10TRPF	6.6	B, C, D	350	0.15
NMC-Q0201NPO6R8_10TRPF	6.8	B, C, D	350	0.15
NMC-Q0201NPO6R9_10TRPF	6.9	B, C, D	350	0.15
NMC-Q0201NPO7R0_10TRPF	7.0	B, C, D	350	0.15
NMC-Q0201NPO7R1_10TRPF	7.1	B, C, D	350	0.15
NMC-Q0201NPO7.2_10TRPF	7.2	B, C, D	350	0.15
NMC-Q0201NPO7R3_10TRPF	7.3	B, C, D	350	0.15
NMC-Q0201NPO7R4_10TRPF	7.4	B, C, D	350	0.15
NMC-Q0201NPO7R5_10TRPF	7.5	B, C, D	350	0.15
NMC-Q0201NPO7R6_10TRPF	7.6	B, C, D	350	0.15
NMC-Q0201NPO7R7_10TRPF	7.7	B, C, D	350	0.15
NMC-Q0201NPO7R8_10TRPF	7.8	B, C, D	350	0.15
NMC-Q0201NPO8R0_10TRPF	8.0	B, C, D	350	0.15
NMC-Q0201NPO8R1_10TRPF	8.1	B, C, D	300	0.15
NMC-Q0201NPO8R2_10TRPF	8.2	B, C, D	300	0.15
NMC-Q0201NPO8R3_10TRPF	8.3	B, C, D	300	0.15
NMC-Q0201NPO8R4_10TRPF	8.4	B, C, D	300	0.15
NMC-Q0201NPO8R5_10TRPF	8.5	B, C, D	300	0.15
NMC-Q0201NPO8R6_10TRPF	8.6	B, C, D	300	0.15
NMC-Q0201NPO8R7_10TRPF	8.7	B, C, D	300	0.15
NMC-Q0201NPO8R8_10TRPF	8.8	B, C, D	300	0.15
NMC-Q0201NPO8R9_10TRPF	8.9	B, C, D	300	0.15
NMC-Q0201NPO9R0_10TRPF	9.0	B, C, D	300	0.15
NMC-Q0201NPO9R1_10TRPF	9.1	B, C, D	300	0.15
NMC-Q0201NPO9R2_10TRPF	9.2	B, C, D	300	0.15
NMC-Q0201NPO9R3_10TRPF	9.3	B, C, D	300	0.15
NMC-Q0201NPO9R4_10TRPF	9.4	B, C, D	300	0.15
NMC-Q0201NPO9R5_10TRPF	9.5	B, C, D	300	0.15
NMC-Q0201NPO9R6_10TRPF	9.6	B, C, D	300	0.15
NMC-Q0201NPO9R7_10TRPF	9.7	B, C, D	300	0.15
NMC-Q0201NPO9R8_10TRPF	9.8	B, C, D	300	0.15
NMC-Q0201NPO9R9_10TRPF	9.9	B, C, D	300	0.15
NMC-Q0201NPO100_10TRPF	10	F, G, J	300	0.10
NMC-Q0201NPO110_10TRPF	11	F, G, J	300	0.10
NMC-Q0201NPO120_10TRPF	12	F, G, J	300	0.10
NMC-Q0201NPO130_10TRPF	13	F, G, J	300	0.10
NMC-Q0201NPO150_10TRPF	15	F, G, J	250	0.10
NMC-Q0201NPO160_10TRPF	16	F, G, J	300	0.10
NMC-Q0201NPO180_10TRPF	18	F, G, J	250	0.10
NMC-Q0201NPO200_10TRPF	20	F, G, J	250	0.10
NMC-Q0201NPO220_10TRPF	22	F, G, J	250	0.10

*Typical Q & ESR



0201 10 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO240_10TRPF	24	F, G, J	250	0.10
NMC-Q0201NPO270_10TRPF	27	F, G, J	250	0.10
NMC-Q0201NPO300_10TRPF	30	F, G, J	250	0.10
NMC-Q0201NPO330_10TRPF	33	F, G, J	250	0.10

*Typical Q & ESR

0201 25 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO0R1_25TRPF	0.1	B	400	2.20
NMC-Q0201NPO0R2_25TRPF	0.2	A, B	400	1.80
NMC-Q0201NPO0R3_25TRPF	0.3	A, B	400	0.95
NMC-Q0201NPO0R4_25TRPF	0.4	A, B	400	0.75
NMC-Q0201NPO0R5_25TRPF	0.5	A, B, C	400	0.50
NMC-Q0201NPO0R6_25TRPF	0.6	A, B, C	400	0.45
NMC-Q0201NPO0R7_25TRPF	0.7	A, B, C	400	0.40
NMC-Q0201NPO0R8_25TRPF	0.8	A, B, C	400	0.40
NMC-Q0201NPO0R9_25TRPF	0.9	A, B, C	400	0.35
NMC-Q0201NPO1R0_25TRPF	1.0	A, B, C	400	0.35
NMC-Q0201NPO1R1_25TRPF	1.1	A, B, C	400	0.35
NMC-Q0201NPO1R2_25TRPF	1.2	A, B, C	400	0.35
NMC-Q0201NPO1R3_25TRPF	1.3	A, B, C	400	0.35
NMC-Q0201NPO1R4_25TRPF	1.4	A, B, C	400	0.35
NMC-Q0201NPO1R5_25TRPF	1.5	A, B, C	400	0.30
NMC-Q0201NPO1R6_25TRPF	1.6	A, B, C	400	0.30
NMC-Q0201NPO1R7_25TRPF	1.7	A, B, C	400	0.30
NMC-Q0201NPO1R8_25TRPF	1.8	A, B, C	400	0.30
NMC-Q0201NPO1R9_25TRPF	1.9	A, B, C	400	0.30
NMC-Q0201NPO2R0_25TRPF	2.0	A, B, C	400	0.30
NMC-Q0201NPO2R1_25TRPF	2.1	A, B, C	400	0.30
NMC-Q0201NPO2R2_25TRPF	2.2	A, B, C	400	0.25
NMC-Q0201NPO2R3_25TRPF	2.3	A, B, C	400	0.25
NMC-Q0201NPO2R4_25TRPF	2.4	A, B, C	400	0.25
NMC-Q0201NPO2R5_25TRPF	2.5	A, B, C	400	0.25
NMC-Q0201NPO2R6_25TRPF	2.6	A, B, C	400	0.25
NMC-Q0201NPO2R7_25TRPF	2.7	A, B, C	400	0.25
NMC-Q0201NPO2R8_25TRPF	2.8	A, B, C	400	0.25
NMC-Q0201NPO2R9_25TRPF	2.9	A, B, C	400	0.25
NMC-Q0201NPO3R0_25TRPF	3.0	A, B, C	400	0.25
NMC-Q0201NPO3R1_25TRPF	3.1	A, B, C	400	0.25
NMC-Q0201NPO3R2_25TRPF	3.2	A, B, C	400	0.25
NMC-Q0201NPO3R3_25TRPF	3.3	A, B, C	400	0.25
NMC-Q0201NPO3R4_25TRPF	3.4	A, B, C	400	0.25
NMC-Q0201NPO3R5_25TRPF	3.5	A, B, C	400	0.25
NMC-Q0201NPO3R6_25TRPF	3.6	A, B, C	400	0.25
NMC-Q0201NPO3R7_25TRPF	3.7	A, B, C	400	0.25
NMC-Q0201NPO3R8_25TRPF	3.8	A, B, C	400	0.25
NMC-Q0201NPO3R9_25TRPF	3.9	A, B, C	400	0.20
NMC-Q0201NPO4R0_25TRPF	4.0	A, B, C	400	0.20
NMC-Q0201NPO4R1_25TRPF	4.1	A, B, C	400	0.20
NMC-Q0201NPO4R2_25TRPF	4.2	A, B, C	400	0.20
NMC-Q0201NPO4R3_25TRPF	4.3	A, B, C	400	0.20
NMC-Q0201NPO4R4_25TRPF	4.4	A, B, C	400	0.20
NMC-Q0201NPO4R5_25TRPF	4.5	A, B, C	400	0.20
NMC-Q0201NPO4R6_25TRPF	4.6	A, B, C	400	0.20
NMC-Q0201NPO4R7_25TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R7_25TRPF	4.7	A, B, C	400	0.20
NMC-Q0201NPO4R8_25TRPF	4.8	A, B, C	400	0.20
NMC-Q0201NPO4R9_25TRPF	4.9	A, B, C	400	0.20
NMC-Q0201NPO5R1_25TRPF	5.1	A, B, C	400	0.20

*Typical Q & ESR



0201 25 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO5R2_25TRPF	5.2	A, B, C	400	0.20
NMC-Q0201NPO5R3_25TRPF	5.3	A, B, C	400	0.20
NMC-Q0201NPO5R4_25TRPF	5.4	A, B, C	400	0.20
NMC-Q0201NPO5R6_25TRPF	5.6	B, C, D	350	0.15
NMC-Q0201NPO5R7_25TRPF	5.7	B, C, D	350	0.15
NMC-Q0201NPO5R9_25TRPF	5.9	B, C, D	350	0.15
NMC-Q0201NPO6R0_25TRPF	6.0	B, C, D	350	0.15
NMC-Q0201NPO6R1_25TRPF	6.1	B, C, D	350	0.15
NMC-Q0201NPO6R2_25TRPF	6.2	B, C, D	350	0.15
NMC-Q0201NPO6R3_25TRPF	6.3	B, C, D	350	0.15
NMC-Q0201NPO6R4_25TRPF	6.4	B, C, D	350	0.15
NMC-Q0201NPO6R6_25TRPF	6.6	B, C, D	350	0.15
NMC-Q0201NPO6R8_25TRPF	6.8	B, C, D	350	0.15
NMC-Q0201NPO6R9_25TRPF	6.9	B, C, D	350	0.15
NMC-Q0201NPO7R0_25TRPF	7.0	B, C, D	350	0.15
NMC-Q0201NPO7R1_25TRPF	7.1	B, C, D	350	0.15
NMC-Q0201NPO7.2_25TRPF	7.2	B, C, D	350	0.15
NMC-Q0201NPO7R3_25TRPF	7.3	B, C, D	350	0.15
NMC-Q0201NPO7R4_25TRPF	7.4	B, C, D	350	0.15
NMC-Q0201NPO7R5_25TRPF	7.5	B, C, D	350	0.15
NMC-Q0201NPO7R6_25TRPF	7.6	B, C, D	350	0.15
NMC-Q0201NPO7R7_25TRPF	7.7	B, C, D	350	0.15
NMC-Q0201NPO7R8_25TRPF	7.8	B, C, D	350	0.15
NMC-Q0201NPO8R0_25TRPF	8.0	B, C, D	350	0.15
NMC-Q0201NPO8R1_25TRPF	8.1	B, C, D	300	0.15
NMC-Q0201NPO8R2_25TRPF	8.2	B, C, D	300	0.15
NMC-Q0201NPO8R3_25TRPF	8.3	B, C, D	300	0.15
NMC-Q0201NPO8R4_25TRPF	8.4	B, C, D	300	0.15
NMC-Q0201NPO8R5_25TRPF	8.5	B, C, D	300	0.15
NMC-Q0201NPO8R6_25TRPF	8.6	B, C, D	300	0.15
NMC-Q0201NPO8R7_25TRPF	8.7	B, C, D	300	0.15
NMC-Q0201NPO8R8_25TRPF	8.8	B, C, D	300	0.15
NMC-Q0201NPO8R9_25TRPF	8.9	B, C, D	300	0.15
NMC-Q0201NPO9R0_25TRPF	9.0	B, C, D	300	0.15
NMC-Q0201NPO9R1_25TRPF	9.1	B, C, D	300	0.15
NMC-Q0201NPO9R2_25TRPF	9.2	B, C, D	300	0.15
NMC-Q0201NPO9R3_25TRPF	9.3	B, C, D	300	0.15
NMC-Q0201NPO9R4_25TRPF	9.4	B, C, D	300	0.15
NMC-Q0201NPO9R5_25TRPF	9.5	B, C, D	300	0.15
NMC-Q0201NPO9R6_25TRPF	9.6	B, C, D	300	0.15
NMC-Q0201NPO9R7_25TRPF	9.7	B, C, D	300	0.15
NMC-Q0201NPO9R8_25TRPF	9.8	B, C, D	300	0.15
NMC-Q0201NPO9R9_25TRPF	9.9	B, C, D	300	0.15
NMC-Q0201NPO100_25TRPF	10	F, G, J	300	0.10
NMC-Q0201NPO110_25TRPF	11	F, G, J	300	0.10
NMC-Q0201NPO120_25TRPF	12	F, G, J	300	0.10
NMC-Q0201NPO130_25TRPF	13	F, G, J	300	0.10
NMC-Q0201NPO150_25TRPF	15	F, G, J	250	0.10
NMC-Q0201NPO160_25TRPF	16	F, G, J	300	0.10
NMC-Q0201NPO180_25TRPF	18	F, G, J	250	0.10
NMC-Q0201NPO200_25TRPF	20	F, G, J	250	0.10
NMC-Q0201NPO220_25TRPF	22	F, G, J	250	0.10

*Typical Q & ESR



0201 25 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0201NPO240_25TRPF	24	F, G, J	250	0.10
NMC-Q0201NPO270_25TRPF	27	F, G, J	250	0.10
NMC-Q0201NPO300_25TRPF	30	F, G, J	250	0.10
NMC-Q0201NPO330_25TRPF	33	F, G, J	250	0.10

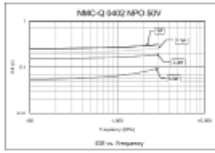
*Typical Q & ESR

0402 50 Volt Standard Values and Characteristics

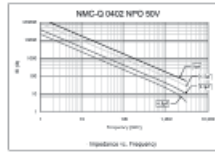
NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0402NPO0R1_50TRPF	0.1	B	400	2.50
NMC-Q0402NPO0R2_50TRPF	0.2	A, B	400	1.60
NMC-Q0402NPO0R3_50TRPF	0.3	A, B	400	1.10
NMC-Q0402NPO0R4_50TRPF	0.4	A, B	400	0.80
NMC-Q0402NPO0R5_50TRPF	0.5	A, B, C	400	0.50
NMC-Q0402NPO0R6_50TRPF	0.6	A, B, C	400	0.40
NMC-Q0402NPO0R7_50TRPF	0.7	A, B, C	400	0.30
NMC-Q0402NPO0R8_50TRPF	0.8	A, B, C	400	0.25
NMC-Q0402NPO0R9_50TRPF	0.9	A, B, C	400	0.20
NMC-Q0402NPO1R0_50TRPF	1.0	A, B, C	400	0.20
NMC-Q0402NPO1R2_50TRPF	1.2	A, B, C	400	0.20
NMC-Q0402NPO1R5_50TRPF	1.5	A, B, C	400	0.20
NMC-Q0402NPO1R6_50TRPF	1.6	A, B, C	400	0.20
NMC-Q0402NPO1R7_50TRPF	1.7	A, B, C	400	0.20
NMC-Q0402NPO1R8_50TRPF	1.8	A, B, C	400	0.20
NMC-Q0402NPO1R9_50TRPF	1.9	A, B, C	400	0.20
NMC-Q0402NPO2R0_50TRPF	2.0	A, B, C	400	0.20
NMC-Q0402NPO2R1_50TRPF	2.1	A, B, C	400	0.20
NMC-Q0402NPO2R2_50TRPF	2.2	A, B, C	400	0.20
NMC-Q0402NPO2R3_50TRPF	2.3	A, B, C	400	0.20
NMC-Q0402NPO2R4_50TRPF	2.4	A, B, C	400	0.20
NMC-Q0402NPO2R7_50TRPF	2.7	A, B, C	400	0.20
NMC-Q0402NPO3R3_50TRPF	3.3	A, B, C	400	0.15
NMC-Q0402NPO3R6_50TRPF	3.6	A, B, C	400	0.15
NMC-Q0402NPO3R9_50TRPF	3.9	A, B, C	350	0.15
NMC-Q0402NPO4R7_50TRPF	4.7	A, B, C	300	0.15
NMC-Q0402NPO5R1_50TRPF	5.1	B, C, D	300	0.15
NMC-Q0402NPO5R6_50TRPF	5.6	B, C, D	300	0.15
NMC-Q0402NPO6R8_50TRPF	6.8	B, C, D	250	0.15
NMC-Q0402NPO8R2_50TRPF	8.2	B, C, D	250	0.10
NMC-Q0402NPO100_50TRPF	10	F, G, J	250	0.10
NMC-Q0402NPO120_50TRPF	12	F, G, J	250	0.10
NMC-Q0402NPO150_50TRPF	15	F, G, J	250	0.10
NMC-Q0402NPO180_50TRPF	18	F, G, J	250	0.10
NMC-Q0402NPO220_50TRPF	22	F, G, J	250	0.10

*Typical Q & ESR

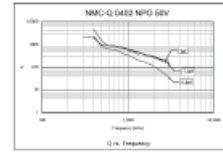
[Link](#)
0402 Q vs. Frequency



[Link](#)
0603 Q vs. Frequency



[Link](#)
0603 ESR vs. Frequency



0603 50 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0603NPO0R3_50TRPF	0.3	B	400	0.90
NMC-Q0603NPO0R4_50TRPF	0.4	A, B	400	0.90
NMC-Q0603NPO0R45_50TRPF	0.45	A, B	400	0.90
NMC-Q0603NPO0R5_50TRPF	0.5	A, B, C	400	0.80
NMC-Q0603NPO0R6_50TRPF	0.6	A, B, C	400	0.70
NMC-Q0603NPO0R7_50TRPF	0.7	A, B, C	400	0.50
NMC-Q0603NPO0R8_50TRPF	0.8	A, B, C	400	0.50
NMC-Q0603NPO0R9_50TRPF	0.9	A, B, C	400	0.40
NMC-Q0603NPO1R0_50TRPF	1.0	A, B, C	400	0.30
NMC-Q0603NPO1R2_50TRPF	1.2	A, B, C	400	0.20
NMC-Q0603NPO1R5_50TRPF	1.5	A, B, C	400	0.20
NMC-Q0603NPO1R6_50TRPF	1.6	A, B, C	400	0.20
NMC-Q0603NPO1R8_50TRPF	1.8	A, B, C	400	0.20
NMC-Q0603NPO2R0_50TRPF	2.0	A, B, C	400	0.20
NMC-Q0603NPO2R2_50TRPF	2.2	A, B, C	400	0.20
NMC-Q0603NPO2R7_50TRPF	2.7	A, B, C	400	0.15
NMC-Q0603NPO3R3_50TRPF	3.3	A, B, C	350	0.15
NMC-Q0603NPO3R9_50TRPF	3.9	A, B, C	350	0.10
NMC-Q0603NPO4R3_50TRPF	4.3	A, B, C	300	0.10
NMC-Q0603NPO4R7_50TRPF	4.7	A, B, C	300	0.10
NMC-Q0603NPO5R6_50TRPF	5.6	B, C, D	300	0.10
NMC-Q0603NPO6R8_50TRPF	6.8	B, C, D	250	0.10
NMC-Q0603NPO8R2_50TRPF	8.2	B, C, D	200	0.10
NMC-Q0603NPO100_50TRPF	10	F, G, J	150	0.10
NMC-Q0603NPO120_50TRPF	12	F, G, J	100	0.10
NMC-Q0603NPO150_50TRPF	15	F, G, J	100	0.10
NMC-Q0603NPO180_50TRPF	18	F, G, J	100	0.10
NMC-Q0603NPO220_50TRPF	22	F, G, J	100	0.10
NMC-Q0603NPO270_50TRPF	27	F, G, J	75	0.10
NMC-Q0603NPO330_50TRPF	33	F, G, J	60	0.10
NMC-Q0603NPO390_50TRPF	39	F, G, J	40	0.10
NMC-Q0603NPO430_50TRPF	43	F, G, J	25	0.10
NMC-Q0603NPO470_50TRPF	47	F, G, J	25	0.10

*Typical Q & ESR

0603 100 Volt Standard Values and Characteristics

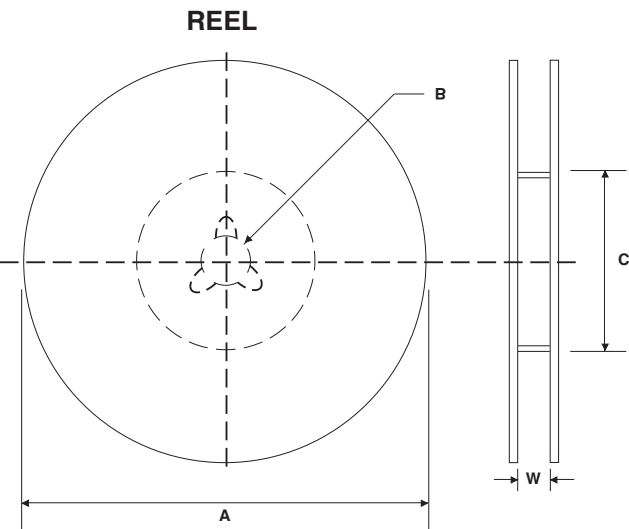
NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (typ. @ 1GHz)*
NMC-Q0603NPO0R3_100TRPF	0.3	B	400	0.90
NMC-Q0603NPO0R4_100TRPF	0.4	A, B	400	0.90
NMC-Q0603NPO0R5_100TRPF	0.5	A, B, C	400	0.80
NMC-Q0603NPO0R6_100TRPF	0.6	A, B, C	400	0.70
NMC-Q0603NPO0R7_100TRPF	0.7	A, B, C	400	0.50
NMC-Q0603NPO0R8_100TRPF	0.8	A, B, C	400	0.50
NMC-Q0603NPO0R9_100TRPF	0.9	A, B, C	400	0.40
NMC-Q0603NPO1R0_100TRPF	1.0	A, B, C	400	0.30
NMC-Q0603NPO1R2_100TRPF	1.2	A, B, C	400	0.20
NMC-Q0603NPO1R5_100TRPF	1.5	A, B, C	400	0.20
NMC-Q0603NPO1R8_100TRPF	1.8	A, B, C	400	0.20
NMC-Q0603NPO2R2_100TRPF	2.2	A, B, C	400	0.20
NMC-Q0603NPO2R7_100TRPF	2.7	A, B, C	400	0.15
NMC-Q0603NPO3R3_100TRPF	3.3	A, B, C	350	0.15
NMC-Q0603NPO3R9_100TRPF	3.9	A, B, C	350	0.10
NMC-Q0603NPO4R7_100TRPF	4.7	A, B, C	300	0.10
NMC-Q0603NPO5R6_100TRPF	5.6	B, C, D	300	0.10
NMC-Q0603NPO6R8_100TRPF	6.8	B, C, D	250	0.10
NMC-Q0603NPO8R2_100TRPF	8.2	B, C, D	200	0.10
NMC-Q0603NPO100_100TRPF	10	F, G, J	150	0.10
NMC-Q0603NPO120_100TRPF	12	F, G, J	100	0.10
NMC-Q0603NPO150_100TRPF	15	F, G, J	100	0.10
NMC-Q0603NPO180_100TRPF	18	F, G, J	100	0.10
NMC-Q0603NPO220_100TRPF	22	F, G, J	100	0.10
NMC-Q0603NPO270_100TRPF	27	F, G, J	75	0.10
NMC-Q0603NPO330_100TRPF	33	F, G, J	60	0.10
NMC-Q0603NPO390_100TRPF	39	F, G, J	40	0.10
NMC-Q0603NPO430_100TRPF	43	F, G, J	25	0.10
NMC-Q0603NPO470_100TRPF	47	F, G, J	25	0.10

*Typical Q & ESR

0603 250 Volt Standard Values and Characteristics

NIC PART NUMBER	CAPACITANCE VALUE (pF)	AVAILABLE TOLERANCE	Q FACTOR (typ. @ 1GHz)*	ESR Ω (@ 1GHz)*
NMC-Q0603NPO0R3_250TRPF	0.3	B	400	0.90
NMC-Q0603NPO0R4_250TRPF	0.4	A, B	400	0.90
NMC-Q0603NPO0R5_250TRPF	0.5	A, B, C	400	0.80
NMC-Q0603NPO0R6_250TRPF	0.6	A, B, C	400	0.70
NMC-Q0603NPO0R7_250TRPF	0.7	A, B, C	400	0.50
NMC-Q0603NPO0R8_250TRPF	0.8	A, B, C	400	0.50
NMC-Q0603NPO0R9_250TRPF	0.9	A, B, C	400	0.40
NMC-Q0603NPO1R0_250TRPF	1.0	A, B, C	400	0.30
NMC-Q0603NPO1R2_250TRPF	1.2	A, B, C	400	0.20
NMC-Q0603NPO1R5_250TRPF	1.5	A, B, C	400	0.20
NMC-Q0603NPO1R8_250TRPF	1.8	A, B, C	400	0.20
NMC-Q0603NPO2R2_250TRPF	2.2	A, B, C	400	0.20
NMC-Q0603NPO2R7_250TRPF	2.7	A, B, C	400	0.15
NMC-Q0603NPO3R3_250TRPF	3.3	A, B, C	350	0.15
NMC-Q0603NPO3R9_250TRPF	3.9	A, B, C	350	0.10
NMC-Q0603NPO4R7_250TRPF	4.7	A, B, C	300	0.10
NMC-Q0603NPO5R6_250TRPF	5.6	B, C, D	300	0.10
NMC-Q0603NPO6R8_250TRPF	6.8	B, C, D	250	0.10
NMC-Q0603NPO8R2_250TRPF	8.2	B, C, D	200	0.10
NMC-Q0603NPO100_250TRPF	10	F, G, J	150	0.10
NMC-Q0603NPO120_250TRPF	12	F, G, J	100	0.10
NMC-Q0603NPO150_250TRPF	15	F, G, J	100	0.10
NMC-Q0603NPO180_250TRPF	18	F, G, J	100	0.10
NMC-Q0603NPO220_250TRPF	22	F, G, J	100	0.10
NMC-Q0603NPO270_250TRPF	27	F, G, J	75	0.10
NMC-Q0603NPO330_250TRPF	33	F, G, J	60	0.10
NMC-Q0603NPO390_250TRPF	39	F, G, J	40	0.10
NMC-Q0603NPO430_250TRPF	43	F, G, J	25	0.10
NMC-Q0603NPO470_250TRPF	47	F, G, J	25	0.10

*Typical Q & ESR



REEL DIMENSIONS (mm)

Reel Diameter (A)	B	C	W1
7" (178 ± 1.0)	13 +0.5/-0.2	60.5 ± 1.0	8.4 +1.5/-0
13" (330 ± 1.0)		100 ± 1.0	

REEL QUANTITIES

Size	0201	0402	0603
7"	15,000	10,000	4,000
13"	-	50,000	10,000

PUNCHED CARRIER TAPE DIMENSIONS (mm)

Type	A _o	B _o	W	F	E	P0	P1	P2	D0	T
0201	0.37 ± 0.03	0.67 ± 0.03	8.00 ± 0.10	3.50 ± 0.05	1.75 ± 0.05	4.0 ± 0.10	2.0 ± 0.05	2.0 ± 0.05	1.55 ± 0.05	0.42 ± 0.30
0402	0.62 ± 0.05	1.12 ± 0.05								0.60 ± 0.05
0603	1.02 ± 0.05	1.82 ± 0.05					4.0 ± 0.10			0.95 ± 0.05

CARDBOARD CARRIER TAPE

