

FEATURES

- LOWER ESR FOR HIGH FREQUENCY (RF-WIRELESS) APPLICATIONS
- NPO DIELECTRIC FOR STABLE CHARACTERISTICS OVER TIME, TEMPERATURE AND VOLTAGE
- EIA STANDARD CASE SIZES (0402, 0603 & 0805)
- NICKEL BARRIER TERMINATION AND EXCELLENT MECHANICAL STRENGTH



CHARACTERISTICS

| SPECIFICATIONS | NPO |
|---------------------------------|--|
| Operating Temperature Range | -55°C to +125°C |
| Temperature Characteristic | 0 ± 30PPM/°C |
| Dissipation Factor | 0.01 max. (1MHz, +25°C) |
| Insulation Resistance | 100,000 Megohms min. @ +25°C |
| Capacitance Range | 0.5pF ~ 150pF |
| Capacitance Tolerances | Below 10pF: ±0.1pF(B), ±0.25pF(C), ±0.5pF(D) 10pF and above: ±1%(F), ±2%(G), ±5%(J) |
| Rated Voltage | 50, 100VDC |
| Dielectric Withstanding Voltage | 250% of rated voltage for 5 ± 1 seconds |

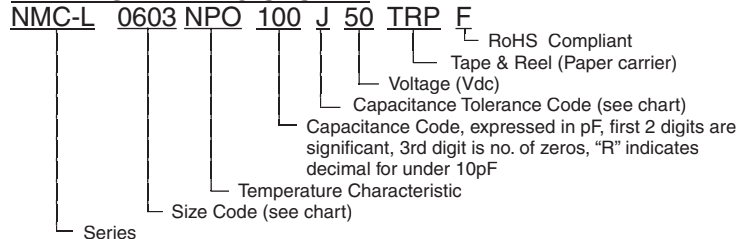
**RoHS
Compliant**
includes all homogeneous materials

*See Part Number System for Details

STANDARD VALUES AND CASE SIZES (mm)

| EIA Case Size | 0402 | 0603 | 0805 |
|-----------------------|-------------------------------------|------------|-------------|
| Length (L) | 1.0 ± 0.05 | 1.6 ± 0.1 | 2.0 ± 0.1 |
| Width (W) | 0.5 ± 0.05 | 0.80 ± 0.1 | 1.25 ± 0.1 |
| Thickness (T) | 0.60 max. | 1.00 max. | 1.30 max. |
| Termination Width (P) | 0.2 ± 0.1 | 0.12~ 0.51 | 0.25 ~ 0.71 |
| Capacitance | 50 & 100VDC Maximum ESR @ 500MHz | | |
| 0.5pF | 0.700Ω max. | | |
| 0.68pF | | | |
| 0.75pF | | | |
| 0.82pF | | | |
| 0.91pF | | | |
| 1.0pF | | | |
| 1.1pF | | | |
| 1.2pF | | | |
| 1.3pF | | | |
| 1.5pF | | | |
| 1.6pF | | | |
| 1.8pF | | | |
| 2.0pF | | | |
| 2.2pF | | | |
| 2.4pF | | | |
| 2.7pF | | | |
| 3.0pF | | | |
| 3.3pF | | | |
| 3.6pF | | | |
| 3.9pF | | | |
| 4.3pF | | | |
| 4.7pF | | | |
| 5.1pF | 0.385Ω max. | | |
| 5.6pF | | | |
| 6.2pF | | | |
| 6.8pF | | | |
| 7.5pF | | | |
| 8.2pF | | | |
| 9.1pF | | | |
| 10pF | | | |
| 11pF | | | |

PART NUMBERING SYSTEM



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STANDARD VALUES AND CASE SIZES (mm)

| EIA Case Size | 0402 | 0603 | 0805 |
|-----------------------|----------------------|-------------|-------------|
| Length (L) | 1.0 ± 0.05 | 1.6 ± 0.1 | 2.0 ± 0.1 |
| Width (W) | 0.5 ± 0.05 | 0.80 ± 0.1 | 1.25 ± 0.1 |
| Thickness (T) | 0.60 max. | 1.00 max. | 1.30 max. |
| Termination Width (P) | 0.2 ± 0.1 | 0.12~ 0.51 | 0.25 ~ 0.71 |
| Capacitance | 50 & 100VDC | | |
| | Maximum ESR @ 500MHz | | |
| 12pF | 0.385Ω max. | | |
| 13pF | | | |
| 15pF | | | |
| 18pF | | | |
| 20pF | | | |
| 22pF | 0.300Ω max. | | |
| 27pF | | | |
| 33pF | | | |
| 36pF | | | |
| 39pF | | | |
| 47pF | | | |
| 51pF | | | |
| 56pF | | | |
| 68pF | 0.260Ω max. | | |
| 75pF | | | |
| 82pF | | | |
| 91pF | | | |
| 100pF | | | |
| 110pF | 0.500Ω max. | 0.400Ω max. | 0.260Ω max. |
| 120pF | | | |
| 130pF | 0.500Ω max. | 0.400Ω max. | 0.260Ω max. |
| 150pF | | | |

