

Multilayer Ceramic Chip Capacitors

NMC-L Series

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

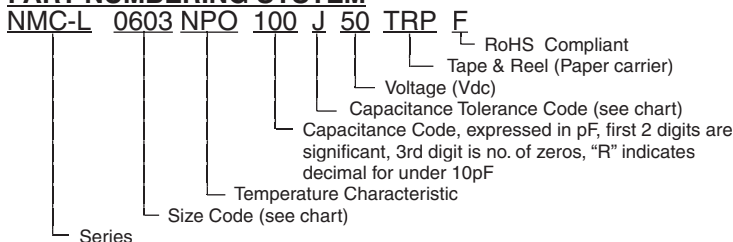
**RoHS
Compliant**
includes all homogeneous materials

*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	0.385Ω max.		
5.1pF			
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			
27pF	0.300Ω max.		
33pF			
36pF			
39pF			
47pF			
51pF			
56pF	0.260Ω max.		
68pF			
75pF			
82pF			
91pF			
100pF			
110pF	0.500Ω max.	0.400Ω max.	0.260Ω max.
120pF			
130pF			
150pF			

