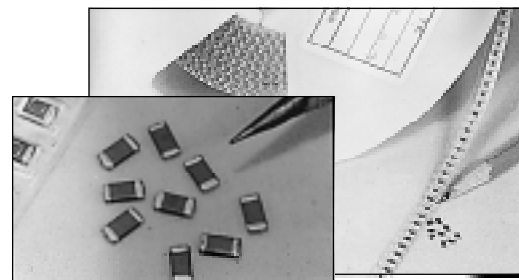


FEATURES

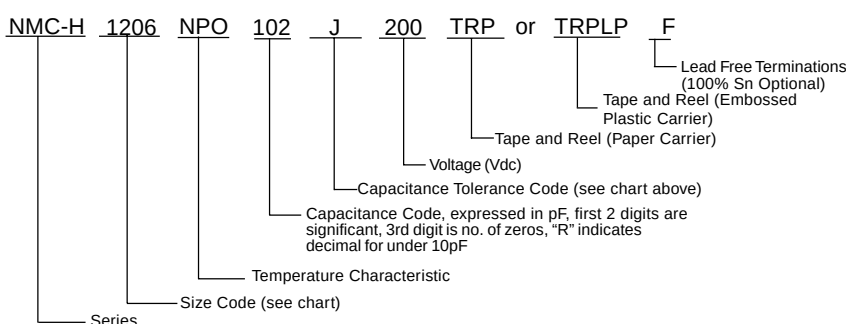
- HIGH VOLTAGE 200, 500 AND 1000Vdc
- NPO AND X7R DIELECTRICS
- 0603, 0805, 1206, 1210, 1812 AND 2225 SIZES
- NICKEL BARRIER TERMINATION AND EXCELLENT MECHANICAL STRENGTH
- EIA MARKING AVAILABLE



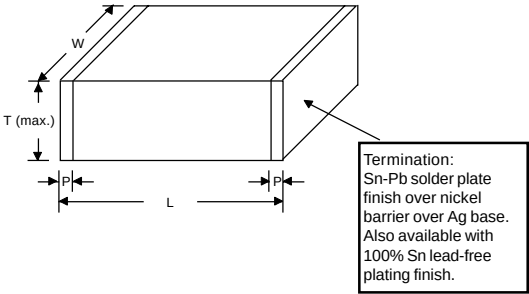
SURFACE MOUNT

SPECIFICATIONS	NPO	X7R
Operating Temperature Range	-55°C to +125°C	-55°C to +125°C
Temperature Characteristic	0±30ppm/°C	±15% with 0 VDC Applied
Dissipation Factor	0.1% max. @ 1MHz for <1000pF 0.1% max. @ 1kHz for ≥ 1000pF	2.5% max. @ 1kHz, 1.0Vrms and 25°C
Insulation Resistance	100,000 Megohms min. @ +25°C 10,000 Megohms min. @ +125°C	100,000 Megohms min. @ +25°C 10,000 Megohms min. @ +125°C
Capacitance Range	1pF to .039μF	.022μF to 1.2μF
Capacitance Tolerances	±2%(G) ±5%(J)	±5%(J) ±10%(K), ±20%(M)
Rated Voltage	200VDC, 500VDC, 1000VDC	200VDC 500VDC, 1000VDC
Dielectric Withstanding Voltage	200VDC=250%, 500VDC=200%, 1000VDC=150% of rated voltage for 5 ± 1 seconds, 50 milliamps max.	200VDC=250%, 500VDC=200%, 1000VDC=150% of rated voltage for 5 ± 1 seconds, 50 milliamps max.
Test Conditions	≤1000pF; 1Mhz, 1.2Vrms Max. >1000pF; 1kHz, 1.2 Vrms Max.	1kHz, 1.0V ±0.2 Vrms

PART NUMBERING SYSTEM

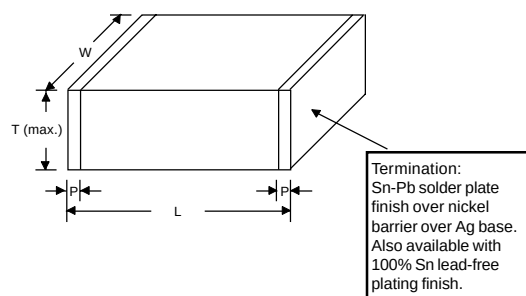


SURFACE MOUNT



NPO-HIGH VOLTAGE SIZE
CHART (mm)

EIA Case Size		0603		0805		1206		1210		1812			2225	
Length	L	1.6±0.15		2.0±0.2		3.2±0.2		3.2±0.2		4.5±0.3			5.7±0.4	
Width	W	0.8±0.15		1.25±0.2		1.6±0.2		2.5±0.2		3.2±0.25			6.35±0.25	
Thickness (max.)	T	1.0		1.30		1.50		1.70		1.70			1.78	
Termination Width	P	.12-.51		.25-.71		.25-.71		.25-.71		.25-.76			.25-1.02	
Capacitance	Working Voltage (VDC)													
	200		200	500	200	500	200	500	200	500	1000	200	500	
1.0pF														
2.2														
3.3														
4.7														
6.8														
10														
15														
22														
27														
33														
47														
68														
82														
100														
120														
150														
180														
220														
270														
330														
390														
470														
680														
.001μF														
.0015														
.0022														
.0033														
.0047														
.0068														
.01														
.015														
.022														
.027														
.033														
.039														



X7R-HIGH VOLTAGE SIZE CHART (mm)

EIA Case Size	0603	0805	1206		1210		1812			2225	
Length L	1.6±0.15	2.0±0.2	3.2±0.2		3.2±0.2		4.5±0.3			5.7±0.4	
Width W	0.8±0.15	1.25±0.2	1.6±0.2		2.5±0.2		3.2±0.25			6.35±0.25	
Thickness (max.) T	1.0	1.30	1.50		1.70		1.70			1.78	
Termination Width P	.12-.51	.25-.71	.25-.71		.25-.71		.25-.76			.25-1.02	
Capacitance	Working Voltage (VDC)										
	200	200	200	500	200	500	200	500	1000	200	500
330pF											
390											
470											
680											
820											
.001μF											
.0015											
.0022											
.0027											
.0033											
.0047											
.0068											
.01											
.015											
.022											
.027											
.033											
.047											
.068											
.1											
.15											
.22											
.27											
.33											
.47											
.68											
.82											
1.0											