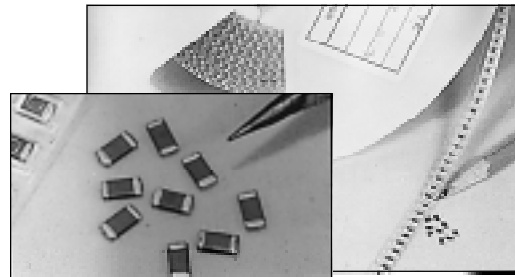


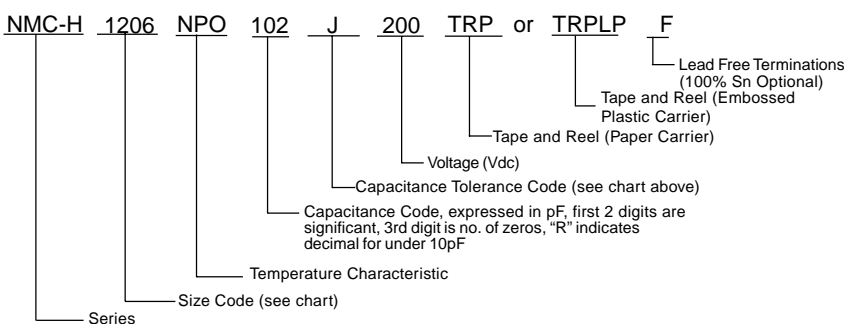
### FEATURES

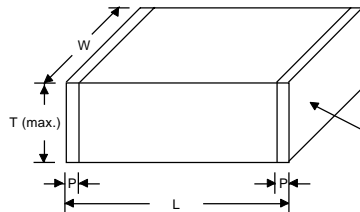
- HIGH VOLTAGE 200, 500 AND 1000Vdc
- NPO AND X7R DIELECTRICS
- 0603, 0805, 1206, 1210, 1812 AND 2225 SIZES
- NICKEL BARRIER TERMINATION AND EXCELLENT MECHANICAL STRENGTH
- EIA MARKING AVAILABLE



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

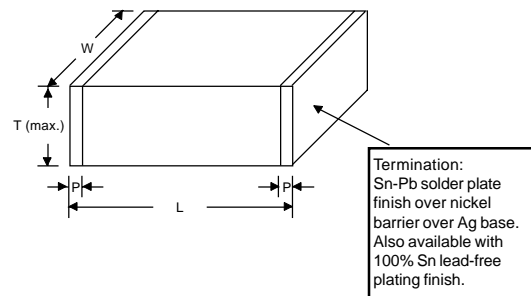




Termination:  
Sn-Pb solder plate  
finish over nickel  
barrier over Ag base.  
Also available with  
100% Sn lead-free  
plating finish.

**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											