

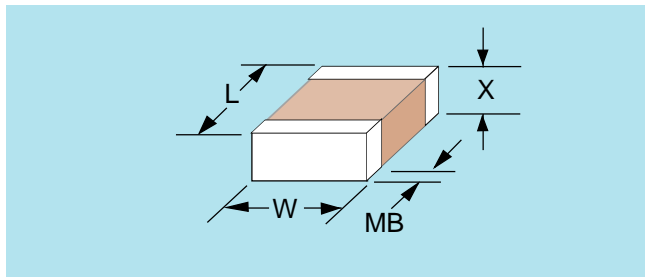
## 1. SCOPE

This specification covers the characteristics of size 0201, Base Metal X7R dielectric, 1.0 nF capacitance, +/- 10% tolerance, 50 VDC rated ceramic chip capacitors with nickel barrier gold (flash) finish termination.

## 2. DIELECTRIC CHARACTERISTICS - X7R (BB)

Operating Temperature Range:	-55°C to +125°C
Temperature Coefficient:	+/- 15% Change in capacitance @ 1 Vrms
Dissipation Factor:	3.5% Max. @ 25°C
Insulation Resistance, 25°C:	>10 Giga-Ohms
Dielectric Withstanding Voltage:	125 VDC
Aging Rate:	3.5% Typical
Test Parameters:	1KHz, 1.0 Volts +/- 0.2 Vrms, 25°C

## 3. PHYSICAL DIMENSIONS ( NOT SCALED )



Dimensions	L	W	X	MB
Inches (mm)	.0235 (0.6)	.0118 (0.3)	.013 (0.33)	.006 (0.15)
+/- in (mm)	.0015 (0.03)	.0012 (0.03)	Max	.002 (0.05)

## 4. PART NUMBER DESCRIPTION

### 0201 BB 102 K 500 NG T

0201	= Size
BB	= X7R Dielectric (Base Metal Electrodes)
102	= Capacitance Code (pF): First two digits are significant, third digit denotes number of zeros
K	= Capacitance tolerance: K = +/- 10%
500	= DC Voltage Rating: First two digits are significant, third digit denotes number of zeros
NG	= Termination: Nickel Barrier with Gold flash finish
T	= Packaging: Tape and Reel

REVISION: A

NOVACAP P/N: 0201BB102K500NGT  
 CUSTOMER:  
 CUST. P/N:

SPEC DESIGNER           MK 5/22/2017            
 SPEC MANAGER           BN 5/22/2017            
 ENGINEERING           BN 5/22/2017