



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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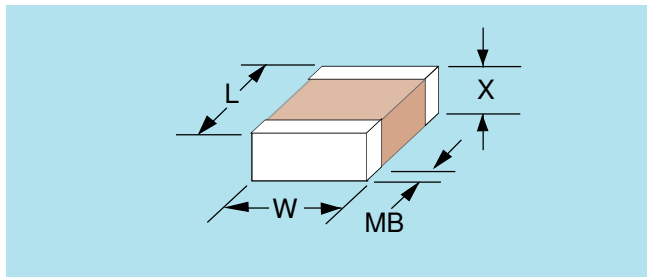
## 1. SCOPE

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 (90% tin / 10% lead) 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 Y 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
Y	= Termination: Nickel Barrier with 90% Tin / 10% Lead
T	= Packaging: Tape and Reel

REVISION: A

**NOVACAP P/N:** 0201BB102K500YT  
**CUSTOMER:**  
**CUST. P/N:**

**SPEC DESIGNER**           MK 5/25/17            
**SPEC MANAGER**           MK FOR BN 5/25/17            
**ENGINEERING**           MK FOR BN 5/25/17