

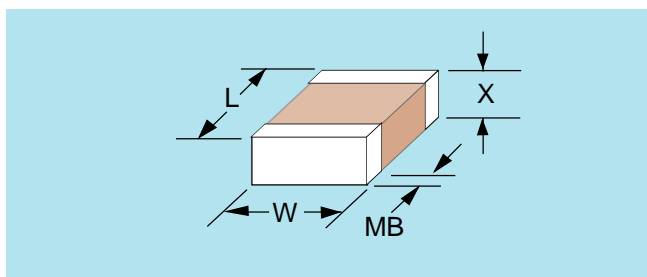
## 1. SCOPE

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