

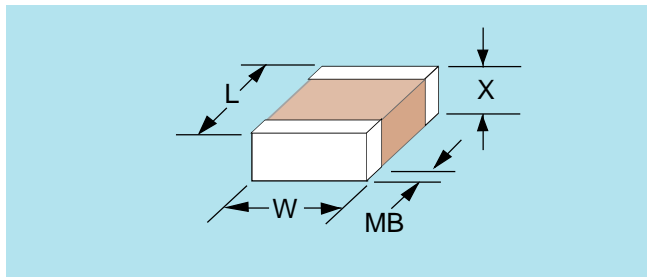
## 1. SCOPE

This specification covers the characteristics of size 0201, Base Metal C0G dielectric, 1.5 pF capacitance, +/- 0.25 pF tolerance, 50 VDC rated ceramic chip capacitors with nickel barrier (90% tin/10% lead) termination.

## 2. DIELECTRIC CHARACTERISTICS - C0G (BN)

|                                  |                                    |
|----------------------------------|------------------------------------|
| Operating Temperature Range:     | -55°C to +125°C                    |
| Temperature Coefficient:         | 0 +/- 30 ppm/°C                    |
| Dissipation Factor:              | 0.1% Max. @ 25°C                   |
| Insulation Resistance, 25°C:     | >10 Giga-Ohms                      |
| Dielectric Withstanding Voltage: | 125 VDC                            |
| Aging Rate:                      | 0% per decade                      |
| Test Parameters:                 | 1MHz, 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 BN 1R5 C 500 Y T

|      |  |
|------|--|
| 0201 | = Size   |
| BN   | = C0G Dielectric (Base Metal Electrodes)   |
| 1R5  | = Capacitance Code (pF): R denotes decimal (1R5 = 1.5 pF)                                  |
| C    | = Capacitance tolerance: C = +/- 0.25 pF   |
| 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: 0201BN1R5C500YT  
 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