

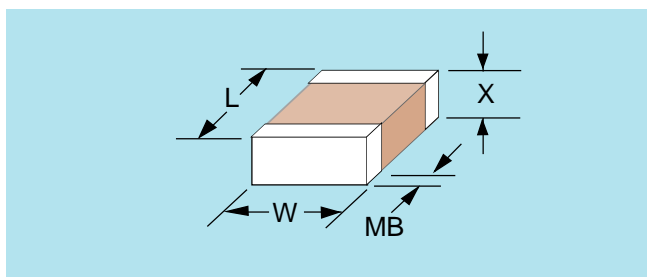
### 1. SCOPE

This specification covers the characteristics of size 0201, Base Metal C0G dielectric, 6.8 pF capacitance, +/- 0.50 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 6R8 D 500 Y T

0201	= Size
BN	= C0G Dielectric (Base Metal Electrodes)
6R8	= Capacitance Code (pF): R denotes decimal (6R8 = 6.8 pF)
D	= Capacitance tolerance: D = +/- 0.50 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:** 0201BN6R8D500YT  
**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