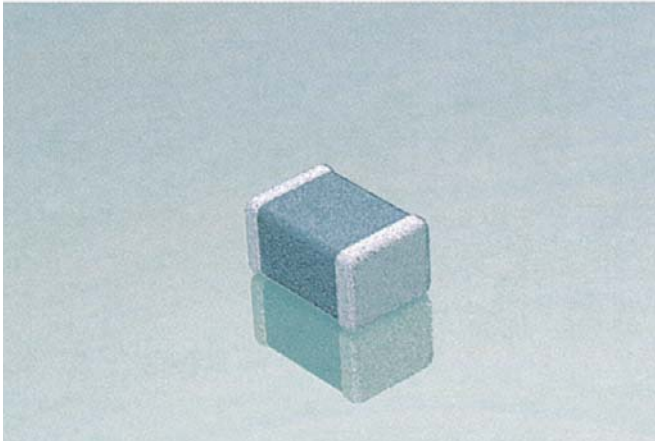


# C0G (NP0) Dielectric



## General Specifications



C0G (NP0) is the most popular formulation of the "temperature-compensating," EIA Class I ceramic materials. Modern C0G (NP0) formulations contain neodymium, samarium and other rare earth oxides.

C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available. Capacitance change with temperature is  $0 \pm 30 \text{ ppm}/^\circ\text{C}$  which is less than  $\pm 0.3\% \Delta C$  from  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$ . Capacitance drift or hysteresis for C0G (NP0) ceramics is negligible at less than  $\pm 0.05\%$  versus up to  $\pm 2\%$  for films. Typical capacitance change with life is less than  $\pm 0.1\%$  for C0G (NP0), one-fifth that shown by most other dielectrics. C0G (NP0) formulations show no aging characteristics.

## PART NUMBER (see page 2 for complete part number explanation)

**0805**

**Size**  
(L" x W")

**5**

**Voltage**  
6.3V = 6  
10V = Z  
16V = Y  
25V = 3  
50V = 5  
100V = 1  
200V = 2  
500V = 7

**A**

**Dielectric**  
C0G (NP0) = A

**101**

**Capacitance Code (In pF)**  
2 Sig. Digits + Number of Zeros

**J**

**Capacitance Tolerance**  
B =  $\pm 10 \text{ pF}$  ( $< 10 \text{ pF}$ )  
C =  $\pm 25 \text{ pF}$  ( $< 10 \text{ pF}$ )  
D =  $\pm 50 \text{ pF}$  ( $< 10 \text{ pF}$ )  
F =  $\pm 1\%$  ( $\geq 10 \text{ pF}$ )  
G =  $\pm 2\%$  ( $\geq 10 \text{ pF}$ )  
J =  $\pm 5\%$   
K =  $\pm 10\%$

**A**

**Failure Rate**  
A = Not Applicable

**T**

**Terminations**  
T = Plated Ni and Sn  
7 = Gold Plated  
  
**Contact Factory For**  
1 = Pd/Ag Term

**2**

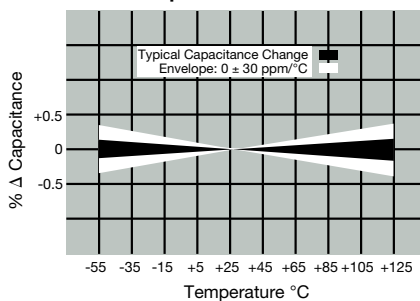
**Packaging**  
2 = 7" Reel  
4 = 13" Reel  
7 = Bulk Cass.  
9 = Bulk

**A**

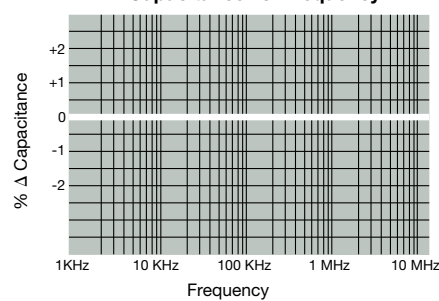
**Special Code**  
A = Std. Product

NOTE: Contact factory for availability of Termination and Tolerance Options for Specific Part Numbers.  
Contact factory for non-specified capacitance values.

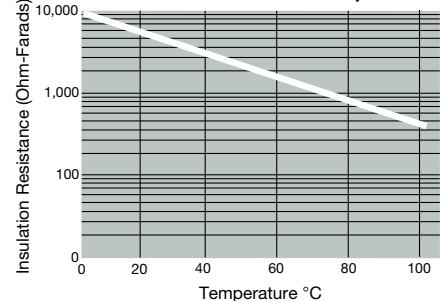
**Temperature Coefficient**



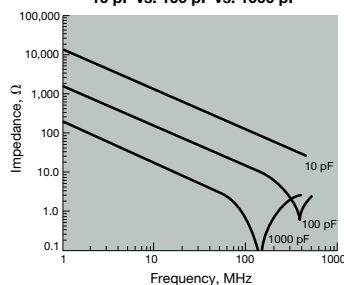
**Δ Capacitance vs. Frequency**



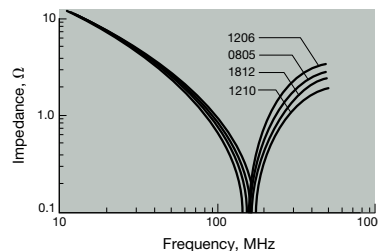
**Insulation Resistance vs Temperature**



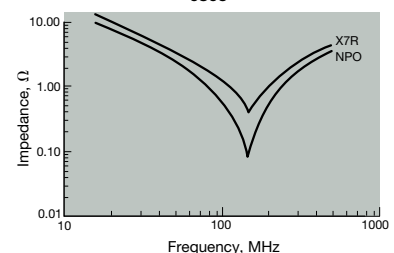
**Variation of Impedance with Cap Value**  
Impedance vs. Frequency  
0805 - C0G (NP0)  
10 pF vs. 100 pF vs. 1000 pF



**Variation of Impedance with Chip Size**  
Impedance vs. Frequency  
1000 pF - C0G (NP0)



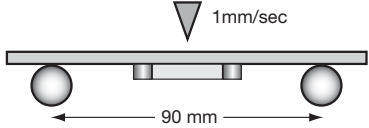
**Variation of Impedance with Ceramic Formulation**  
Impedance vs. Frequency  
1000 pF - C0G (NP0) vs X7R 0805



# C0G (NP0) Dielectric



## Specifications and Test Methods

| Parameter/Test                       |                       | NP0 Specification Limits                                                                                  | Measuring Conditions                                                                                                                                                                                                                                                         |                    |
|--------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Operating Temperature Range          |                       | -55°C to +125°C                                                                                           | Temperature Cycle Chamber                                                                                                                                                                                                                                                    |                    |
| Capacitance                          |                       | Within specified tolerance                                                                                | Freq.: 1.0 MHz $\pm$ 10% for cap $\leq$ 1000 pF<br>1.0 kHz $\pm$ 10% for cap $>$ 1000 pF<br>Voltage: 1.0Vrms $\pm$ .2V                                                                                                                                                       |                    |
| Q                                    |                       | $<30$ pF: $Q \geq 400 + 20 \times \text{Cap Value}$<br>$\geq 30$ pF: $Q \geq 1000$                        |                                                                                                                                                                                                                                                                              |                    |
| Insulation Resistance                |                       | 100,000M $\Omega$ or 1000M $\Omega$ - $\mu$ F,<br>whichever is less                                       | Charge device with rated voltage for<br>60 $\pm$ 5 secs @ room temp/humidity                                                                                                                                                                                                 |                    |
| Dielectric Strength                  |                       | No breakdown or visual defects                                                                            | Charge device with 300% of rated voltage for<br>1-5 seconds, w/charge and discharge current<br>limited to 50 mA (max)<br>Note: Charge device with 150% of rated<br>voltage for 500V devices.                                                                                 |                    |
| Resistance to<br>Flexure<br>Stresses | Appearance            | No defects                                                                                                | Deflection: 2mm<br>Test Time: 30 seconds<br>                                                                                                                                              |                    |
|                                      | Capacitance Variation | $\pm 5\%$ or $\pm .5$ pF, whichever is greater                                                            |                                                                                                                                                                                                                                                                              |                    |
|                                      | Q                     | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |
|                                      | Insulation Resistance | $\geq$ Initial Value $\times$ 0.3                                                                         |                                                                                                                                                                                                                                                                              |                    |
| Solderability                        |                       | $\geq 95\%$ of each terminal should be covered<br>with fresh solder                                       | Dip device in eutectic solder at $230 \pm 5^\circ\text{C}$<br>for $5.0 \pm 0.5$ seconds                                                                                                                                                                                      |                    |
| Resistance to<br>Solder Heat         | Appearance            | No defects, $<25\%$ leaching of either end terminal                                                       | Dip device in eutectic solder at $260^\circ\text{C}$ for 60<br>seconds. Store at room temperature for $24 \pm 2$<br>hours before measuring electrical properties.                                                                                                            |                    |
|                                      | Capacitance Variation | $\leq \pm 2.5\%$ or $\pm .25$ pF, whichever is greater                                                    |                                                                                                                                                                                                                                                                              |                    |
|                                      | Q                     | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |
|                                      | Insulation Resistance | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |
|                                      | Dielectric Strength   | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |
| Thermal Shock                        | Appearance            | No visual defects                                                                                         | Step 1: $-55^\circ\text{C} \pm 2^\circ$                                                                                                                                                                                                                                      | $30 \pm 3$ minutes |
|                                      | Capacitance Variation | $\leq \pm 2.5\%$ or $\pm .25$ pF, whichever is greater                                                    | Step 2: Room Temp                                                                                                                                                                                                                                                            | $\leq 3$ minutes   |
|                                      | Q                     | Meets Initial Values (As Above)                                                                           | Step 3: $+125^\circ\text{C} \pm 2^\circ$                                                                                                                                                                                                                                     | $30 \pm 3$ minutes |
|                                      | Insulation Resistance | Meets Initial Values (As Above)                                                                           | Step 4: Room Temp                                                                                                                                                                                                                                                            | $\leq 3$ minutes   |
|                                      | Dielectric Strength   | Meets Initial Values (As Above)                                                                           | Repeat for 5 cycles and measure after<br>24 hours at room temperature                                                                                                                                                                                                        |                    |
| Load Life                            | Appearance            | No visual defects                                                                                         | Charge device with twice rated voltage in<br>test chamber set at $125^\circ\text{C} \pm 2^\circ\text{C}$<br>for 1000 hours (+48, -0).<br><br>Remove from test chamber and stabilize at<br>room temperature for 24 hours<br>before measuring.                                 |                    |
|                                      | Capacitance Variation | $\leq \pm 3.0\%$ or $\pm .3$ pF, whichever is greater                                                     |                                                                                                                                                                                                                                                                              |                    |
|                                      | Q<br>(C=Nominal Cap)  | $\geq 30$ pF: $Q \geq 350$<br>$\geq 10$ pF, $<30$ pF: $Q \geq 275 + 5C/2$<br>$<10$ pF: $Q \geq 200 + 10C$ |                                                                                                                                                                                                                                                                              |                    |
|                                      | Insulation Resistance | $\geq$ Initial Value $\times$ 0.3 (See Above)                                                             |                                                                                                                                                                                                                                                                              |                    |
|                                      | Dielectric Strength   | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |
| Load Humidity                        | Appearance            | No visual defects                                                                                         | Store in a test chamber set at $85^\circ\text{C} \pm 2^\circ\text{C}/$<br>$85\% \pm 5\%$ relative humidity for 1000 hours<br>(+48, -0) with rated voltage applied.<br><br>Remove from chamber and stabilize at<br>room temperature for $24 \pm 2$ hours<br>before measuring. |                    |
|                                      | Capacitance Variation | $\leq \pm 5.0\%$ or $\pm .5$ pF, whichever is greater                                                     |                                                                                                                                                                                                                                                                              |                    |
|                                      | Q                     | $\geq 30$ pF: $Q \geq 350$<br>$\geq 10$ pF, $<30$ pF: $Q \geq 275 + 5C/2$<br>$<10$ pF: $Q \geq 200 + 10C$ |                                                                                                                                                                                                                                                                              |                    |
|                                      | Insulation Resistance | $\geq$ Initial Value $\times$ 0.3 (See Above)                                                             |                                                                                                                                                                                                                                                                              |                    |
|                                      | Dielectric Strength   | Meets Initial Values (As Above)                                                                           |                                                                                                                                                                                                                                                                              |                    |

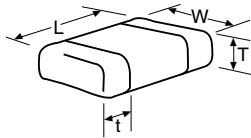
# C0G (NP0) Dielectric

## Capacitance Range



### PREFERRED SIZES ARE SHADED

| SIZE           |          | 01005                        |              | 0201                        |              | 0402                        |              | 0603                        |              |              |              | 0805                        |              |              |              |     | 1206                        |    |    |     |     |     |     |  |
|----------------|----------|------------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|-----------------------------|--------------|--------------|--------------|-----------------------------|--------------|--------------|--------------|-----|-----------------------------|----|----|-----|-----|-----|-----|--|
| Soldering      |          | Reflow Only                  |              | Reflow Only                 |              | Reflow/Wave                 |              | Reflow/Wave                 |              |              |              | Reflow/Wave                 |              |              |              |     | Reflow/Wave                 |    |    |     |     |     |     |  |
| Packaging      |          | All Paper                    |              | All Paper                   |              | All Paper                   |              | All Paper                   |              |              |              | Paper/Embossed              |              |              |              |     | Paper/Embossed              |    |    |     |     |     |     |  |
| (L) Length     | mm (in.) | 0.40 ± 0.02 (0.016 ± 0.0008) |              | 0.60 ± 0.03 (0.024 ± 0.001) |              | 1.00 ± 0.10 (0.040 ± 0.004) |              | 1.60 ± 0.15 (0.063 ± 0.006) |              |              |              | 2.01 ± 0.20 (0.079 ± 0.008) |              |              |              |     | 3.20 ± 0.20 (0.126 ± 0.008) |    |    |     |     |     |     |  |
| (W) Width      | mm (in.) | 0.20 ± 0.02 (0.008 ± 0.0008) |              | 0.30 ± 0.03 (0.011 ± 0.001) |              | 0.50 ± 0.10 (0.020 ± 0.004) |              | 0.81 ± 0.15 (0.032 ± 0.006) |              |              |              | 1.25 ± 0.20 (0.049 ± 0.008) |              |              |              |     | 1.60 ± 0.20 (0.063 ± 0.008) |    |    |     |     |     |     |  |
| (t) Terminal   | mm (in.) | 0.10 ± 0.04 (0.004 ± 0.016)  |              | 0.15 ± 0.05 (0.006 ± 0.002) |              | 0.25 ± 0.15 (0.010 ± 0.006) |              | 0.35 ± 0.15 (0.014 ± 0.006) |              |              |              | 0.50 ± 0.25 (0.020 ± 0.010) |              |              |              |     | 0.50 ± 0.25 (0.020 ± 0.010) |    |    |     |     |     |     |  |
| WVDC           |          | 16                           |              | 25                          | 50           | 16                          | 25           | 50                          | 16           | 25           | 50           | 100                         | 16           | 25           | 50           | 100 | 200                         | 16 | 25 | 50  | 100 | 200 | 500 |  |
| Cap (pF)       | 0.5      |                              |              | A                           |              | C                           | C            | C                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   | J   |  |
|                | 1.0      | B                            |              | A                           |              | C                           | C            | C                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
|                | 1.2      | B                            |              | A                           |              | C                           | C            | C                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
|                | 1.5      | B                            |              | A                           | A            | C                           | C            | C                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 1.8            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 2.2            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 2.7            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 3.3            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 3.9            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 4.7            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 5.6            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 6.8            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 8.2            | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 10             | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 12             | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 15             | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 18             | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 22             | B        |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 27             |          |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 33             |          |                              | A            | A                           | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 39             |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 47             |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 56             |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 68             |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 82             |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 100            |          |                              | A            |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 120            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 150            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 180            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | J   |     |  |
| 220            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | J                           | J  | J  | J   | J   | M   |     |  |
| 270            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | M                           | J  | J  | J   | J   | M   |     |  |
| 330            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | M                           | J  | J  | J   | J   | M   |     |  |
| 390            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | M                           | J  | J  | J   | J   | M   |     |  |
| 470            |          |                              |              |                             | C            | C                           | C            | G                           | G            | G            | G            | G                           | J            | J            | J            | J   | M                           | J  | J  | J   | J   | M   |     |  |
| 560            |          |                              |              |                             |              |                             |              |                             | G            | G            | G            | G                           | J            | J            | J            | J   | M                           | J  | J  | J   | J   | M   |     |  |
| 680            |          |                              |              |                             |              |                             |              |                             | G            | G            | G            | G                           | J            | J            | J            | J   |                             | J  | J  | J   | J   | P   |     |  |
| 820            |          |                              |              |                             |              |                             |              |                             | G            | G            | G            | G                           | J            | J            | J            | J   |                             | J  | J  | J   | J   |     |     |  |
| 1000           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | J            | J   |                             | J  | J  | J   | J   |     |     |  |
| 1200           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | J            |     |                             | J  | J  | J   | Q   |     |     |  |
| 1500           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | J            |     |                             | J  | J  | J   | Q   |     |     |  |
| 1800           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | J            |     |                             | J  | J  | M   |     |     |     |  |
| 2200           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | N            |     |                             | J  | J  | M   | P   |     |     |  |
| 2700           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            | N            |     |                             | J  | J  | M   | P   |     |     |  |
| 3300           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            |              |     |                             | J  | J  | M   | P   |     |     |  |
| 3900           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            |              |     |                             | J  | J  | M   | P   |     |     |  |
| 4700           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             | J            | J            |              |     |                             | J  | J  | M   | P   |     |     |  |
| 5600           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             | J  | J  | M   |     |     |     |  |
| 6800           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             | M  | M  |     |     |     |     |  |
| 8200           |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             | M  | M  |     |     |     |     |  |
| Cap (μF)       | 0.010    |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
|                | 0.012    |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
|                | 0.015    |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
|                | 0.018    |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
|                | 0.022    |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.027          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.033          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.039          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.047          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.068          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.082          |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| 0.1            |          |                              |              |                             |              |                             |              |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |
| WVDC           |          | 25                           |              | 50                          | 16           | 25                          | 50           | 16                          | 25           | 50           | 100          | 16                          | 25           | 50           | 100          | 200 | 16                          | 25 | 50 | 100 | 200 | 500 |     |  |
| SIZE           |          | 01005                        |              | 0201                        |              | 0402                        |              | 0603                        |              |              |              | 0805                        |              |              |              |     | 1206                        |    |    |     |     |     |     |  |
| Letter         |          | A                            | B            | C                           | E            | G                           | J            | K                           | M            | N            | P            | Q                           | X            | Y            | Z            |     |                             |    |    |     |     |     |     |  |
| Max. Thickness |          | 0.33 (0.013)                 | 0.22 (0.009) | 0.56 (0.022)                | 0.71 (0.028) | 0.90 (0.035)                | 0.94 (0.037) | 1.02 (0.040)                | 1.27 (0.050) | 1.40 (0.055) | 1.52 (0.060) | 1.78 (0.070)                | 2.29 (0.090) | 2.54 (0.100) | 2.79 (0.110) |     |                             |    |    |     |     |     |     |  |
| PAPER          |          |                              |              |                             |              |                             | EMBOSSED     |                             |              |              |              |                             |              |              |              |     |                             |    |    |     |     |     |     |  |





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A 3D perspective diagram of a rectangular block. The length of the block is labeled  $L$ , the width is labeled  $W$ , and the thickness is labeled  $T$ . The block is shown with rounded edges and a small rectangular notch on its top surface.

**AVAX**



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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