

# 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 x 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 x 0.3                                                                          |                                                                                                                                                                                                                                                    |                    |
| Solderability                        |                       | $\geq$ 95% of each terminal should be covered<br>with fresh solder                                  | Dip device in eutectic solder at 230 $\pm$ 5°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°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°C $\pm$ 2°                                                                                                                                                                                                                             | 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°C $\pm$ 2°                                                                                                                                                                                                                            | 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°C $\pm$ 2°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 x 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°C $\pm$ 2°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 x 0.3 (See Above)                                                              |                                                                                                                                                                                                                                                    |                    |
|                                      | Dielectric Strength   | Meets Initial Values (As Above)                                                                     |                                                                                                                                                                                                                                                    |                    |

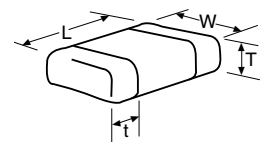
**PREFERRED SIZES ARE SHADED**

| 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<br>(in.) | 0.40 ± 0.02<br>(0.016 ± 0.0008) |   | 0.60 ± 0.03<br>(0.024 ± 0.001) |    | 1.00 ± 0.10<br>(0.040 ± 0.004) |    | 1.60 ± 0.15<br>(0.063 ± 0.006) |     |                 |     | 2.01 ± 0.20<br>(0.079 ± 0.008) |     |                 |     |                 | 3.20 ± 0.20<br>(0.126 ± 0.008) |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| (W) Width      | mm<br>(in.) | 0.20 ± 0.02<br>(0.008 ± 0.0008) |   | 0.30 ± 0.03<br>(0.011 ± 0.001) |    | 0.50 ± 0.10<br>(0.020 ± 0.004) |    | 0.81 ± 0.15<br>(0.032 ± 0.006) |     |                 |     | 1.25 ± 0.20<br>(0.049 ± 0.008) |     |                 |     |                 | 1.60 ± 0.20<br>(0.063 ± 0.008) |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| (t) Terminal   | mm<br>(in.) | 0.10 ± 0.04<br>(0.004 ± 0.016)  |   | 0.15 ± 0.05<br>(0.006 ± 0.002) |    | 0.25 ± 0.15<br>(0.010 ± 0.006) |    | 0.35 ± 0.15<br>(0.014 ± 0.006) |     |                 |     | 0.50 ± 0.25<br>(0.020 ± 0.010) |     |                 |     |                 | 0.50 ± 0.25<br>(0.020 ± 0.010) |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| WVDC           |             | 16                              |   | 25                             | 50 | 16                             | 25 | 50                             | 100 | 16              | 25  | 50                             | 100 | 200             | 16  | 25              | 50                             | 100             | 200 | 500             |     |                 |  |                 |  |                 |  |                 |  |
| Cap<br>(pF)    | 0.5         |                                 |   | A                              |    | C                              | C  | C                              |     | G               | G   | G                              | G   |                 | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
|                | 1.0         | B                               |   | A                              |    | C                              | C  | C                              |     | G               | G   | G                              | G   |                 | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
|                | 1.2         | B                               |   | A                              |    | C                              | C  | C                              |     | G               | G   | G                              | G   |                 | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
|                | 1.5         | B                               |   | A                              | A  | C                              | C  | C                              |     | G               | G   | G                              | G   |                 | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 1.8            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 2.2            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 2.7            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 3.3            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 3.9            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 4.7            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 5.6            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 6.8            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 8.2            | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 10             | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 12             | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 15             | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 18             | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 22             | B           |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 27             |             |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 33             |             |                                 | A | A                              | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 39             |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 47             |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 56             |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 68             |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 82             |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 100            |             |                                 | A |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 120            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 150            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 180            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | J               |     |                 |  |                 |  |                 |  |                 |  |
| 220            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | M               |     |                 |  |                 |  |                 |  |                 |  |
| 270            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | M               |     |                 |  |                 |  |                 |  |                 |  |
| 330            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | M               |     |                 |  |                 |  |                 |  |                 |  |
| 390            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | M               |     |                 |  |                 |  |                 |  |                 |  |
| 470            |             |                                 |   |                                | C  | C                              | C  |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | M               |     |                 |  |                 |  |                 |  |                 |  |
| 560            |             |                                 |   |                                |    |                                |    |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   | P               |     |                 |  |                 |  |                 |  |                 |  |
| 680            |             |                                 |   |                                |    |                                |    |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | J   |                 |     |                 |  |                 |  |                 |  |                 |  |
| 820            |             |                                 |   |                                |    |                                |    |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | M   |                 |     |                 |  |                 |  |                 |  |                 |  |
| 1000           |             |                                 |   |                                |    |                                |    |                                | G   | G               | G   | G                              |     | J               | J   | J               | J                              | J               | Q   |                 |     |                 |  |                 |  |                 |  |                 |  |
| 1200           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | J                              | J               | Q   |                 |     |                 |  |                 |  |                 |  |                 |  |
| 1500           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | J                              | M               | Q   |                 |     |                 |  |                 |  |                 |  |                 |  |
| 1800           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | M               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 2200           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | P               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 2700           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | P               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 3300           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | P               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 3900           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | P               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 4700           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     | J               | J   | J               | M                              | P               |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 5600           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     |                 | J   | J               | M                              |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 6800           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     |                 | J   | M               | M                              |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| 8200           |             |                                 |   |                                |    |                                |    |                                |     |                 |     |                                |     |                 | J   | M               | M                              |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |
| Cap<br>(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<br>(0.013)                 |   | 0.22<br>(0.009)                |    | 0.56<br>(0.022)                |    | 0.71<br>(0.028)                |     | 0.90<br>(0.035) |     | 0.94<br>(0.037)                |     | 1.02<br>(0.040) |     | 1.27<br>(0.050) |                                | 1.40<br>(0.055) |     | 1.52<br>(0.060) |     | 1.78<br>(0.070) |  | 2.29<br>(0.090) |  | 2.54<br>(0.100) |  | 2.79<br>(0.110) |  |
|                |             | PAPER                           |   |                                |    |                                |    |                                |     |                 |     | EMBOSSED                       |     |                 |     |                 |                                |                 |     |                 |     |                 |  |                 |  |                 |  |                 |  |

## Capacitance Range



**PREFERRED SIZES ARE SHADED**

[illegible][illegible]

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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