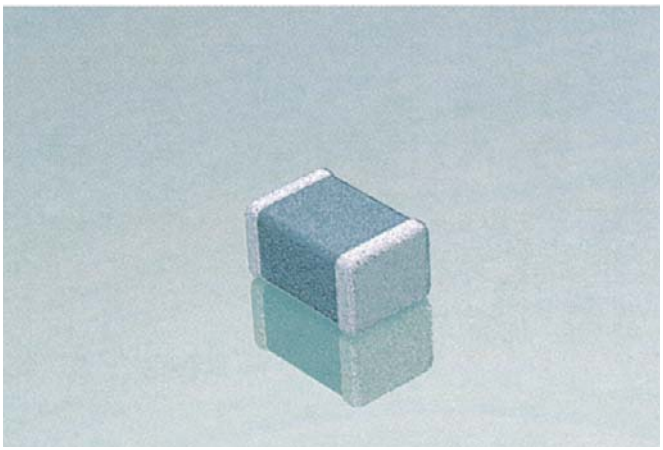
# C0G (NP0) Dielectric

## 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.

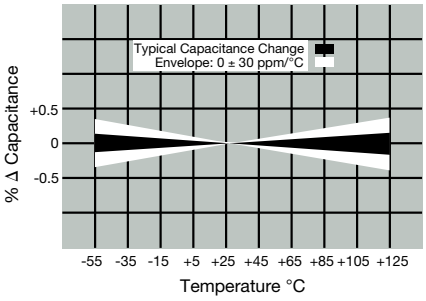
C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available. Capacitance change with temperature is 0 ±30ppm/°C which is less than ±0.3% ΔC from -55°C to +125°C. Capacitance drift or hysteresis for C0G (NP0) ceramics is negligible at less than ±0.05% versus up to ±2% for films. Typical capacitance change with life is less than ±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)

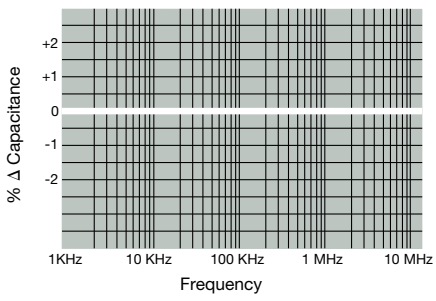
| 0805 | 5 | A | 101 | J | A | T | 2 | A |
|---|---|---|---|---|---|---|---|---|
| **Size** (L" x W") | **Voltage** 6.3V = 6, 10V = Z, 16V = Y, 25V = 3, 50V = 5, 100V = 1, 200V = 2, 500V = 7 | **Dielectric** C0G (NP0) = A | **Capacitance Code (In pF)** 2 Sig. Digits + Number of Zeros | **Capacitance Tolerance** B = ±.10 pF (<10pF), C = ±.25 pF (<10pF), D = ±.50 pF (<10pF), F = ±1% (≥ 10 pF), G = ±2% (≥ 10 pF), J = ±5%, K = ±10% | **Failure Rate** A = Not Applicable | **Terminations** T = Plated Ni and Sn, 7 = Gold Plated. **Contact Factory For 1 = Pd/Ag Term** | **Packaging** 2 = 7" Reel, 4 = 13" Reel, 7 = Bulk Cass., 9 = Bulk. **Contact Factory For Multiples** | **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.

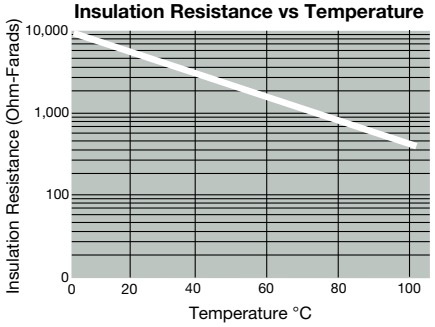
**Temperature Coefficient**



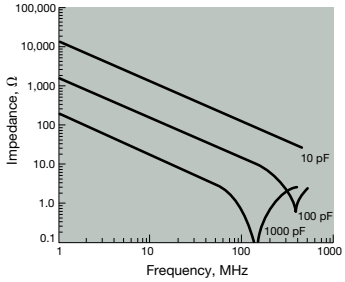

**Δ Capacitance vs. Frequency**



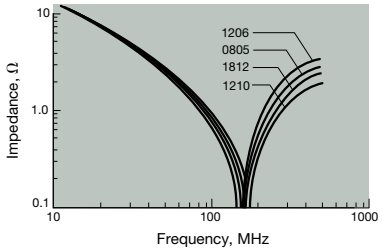

**Insulation Resistance vs Temperature**



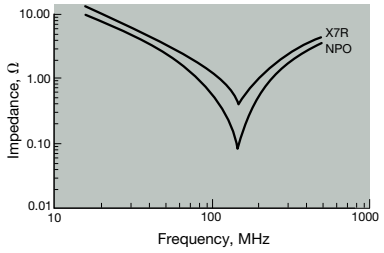

**Variation of Impedance with Cap Value**
**Impedance vs. Frequency**
**0805 - C0G (NP0)**
**10 pF vs. 100 pF vs. 1000 pF**




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

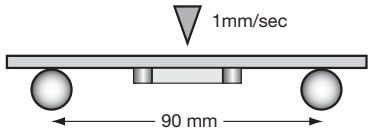



**Variation of Impedance with Ceramic Formulation**
**Impedance vs. Frequency**
**1000 pF - C0G (NP0) vs X7R**
**0805**



# C0G (NP0) Dielectric

## Specifications and Test Methods

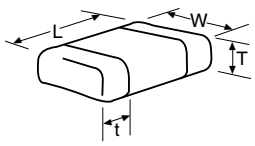
| Parameter/Test | | NP0 Specification Limits | Measuring Conditions |
|---|---|---|---|
| **Operating Temperature Range** | | -55ºC to +125ºC | Temperature Cycle Chamber |
| **Capacitance** | | Within specified tolerance | Freq.: 1.0 MHz ± 10% for cap ≤ 1000 pF<br>1.0 kHz ± 10% for cap > 1000 pF<br>Voltage: 1.0Vrms ± .2V |
| **Q** | | <30 pF: Q≥ 400+20 x Cap Value<br>≥30 pF: Q≥ 1000 | |
| **Insulation Resistance** | | 100,000MΩ or 1000MΩ - µF,<br>whichever is less | Charge device with rated voltage for<br>60 ± 5 secs @ room temp/humidity |
| **Dielectric Strength** | | No breakdown or visual defects | Charge device with 300% of rated voltage for 1-5 seconds, w/charge and discharge current limited to 50 mA (max)<br>Note: Charge device with 150% of rated voltage for 500V devices. |
| **Resistance to Flexure Stresses** | Appearance | No defects | Deflection: 2mm<br>Test Time: 30 seconds<br>  |
| | Capacitance Variation | ±5% or ±.5 pF, whichever is greater | |
| | Q | Meets Initial Values (As Above) | |
| | Insulation Resistance | ≥ Initial Value x 0.3 | |
| **Solderability** | | ≥ 95% of each terminal should be covered with fresh solder | Dip device in eutectic solder at 230 ± 5ºC for 5.0 ± 0.5 seconds |
| **Resistance to Solder Heat** | Appearance | No defects, <25% leaching of either end terminal | Dip device in eutectic solder at 260ºC for 60 seconds. Store at room temperature for 24 ± 2 hours before measuring electrical properties. |
| | Capacitance Variation | ≤ ±2.5% or ±.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: -55ºC ± 2º / 30 ± 3 minutes |
| | Capacitance Variation | ≤ ±2.5% or ±.25 pF, whichever is greater | Step 2: Room Temp / ≤ 3 minutes |
| | Q | Meets Initial Values (As Above) | Step 3: +125ºC ± 2º / 30 ± 3 minutes |
| | Insulation Resistance | Meets Initial Values (As Above) | Step 4: Room Temp / ≤ 3 minutes |
| | Dielectric Strength | Meets Initial Values (As Above) | Repeat for 5 cycles and measure after 24 hours at room temperature |
| **Load Life** | Appearance | No visual defects | Charge device with twice rated voltage in test chamber set at 125ºC ± 2ºC for 1000 hours (+48, -0).<br><br>Remove from test chamber and stabilize at room temperature for 24 hours before measuring. |
| | Capacitance Variation | ≤ ±3.0% or ± .3 pF, whichever is greater | |
| | Q<br>(C=Nominal Cap) | ≥ 30 pF: Q≥ 350<br>≥10 pF, <30 pF: Q≥ 275 +5C/2<br><10 pF: Q≥ 200 +10C | |
| | Insulation Resistance | ≥ 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 85ºC ± 2ºC/ 85% ± 5% relative humidity for 1000 hours (+48, -0) with rated voltage applied.<br><br>Remove from chamber and stabilize at room temperature for 24 ± 2 hours before measuring. |
| | Capacitance Variation | ≤ ±5.0% or ± .5 pF, whichever is greater | |
| | Q | ≥ 30 pF: Q≥ 350<br>≥10 pF, <30 pF: Q≥ 275 +5C/2<br><10 pF: Q≥ 200 +10C | |
| | Insulation Resistance | ≥ Initial Value x 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 | 0.40 ± 0.02 | 0.60 ± 0.03 | | 1.00 ± 0.10 | | | 1.60 ± 0.15 | | | | 2.01 ± 0.20 | | | | | 3.20 ± 0.20 | | | | | |
| | (in.) | (0.016 ± 0.0008) | (0.024 ± 0.001) | | (0.040 ± 0.004) | | | (0.063 ± 0.006) | | | | (0.079 ± 0.008) | | | | | (0.126 ± 0.008) | | | | | |
| (W) Width | mm | 0.20 ± 0.02 | 0.30 ± 0.03 | | 0.50 ± 0.10 | | | 0.81 ± 0.15 | | | | 1.25 ± 0.20 | | | | | 1.60 ± 0.20 | | | | | |
| | (in.) | (0.008 ± 0.0008) | (0.011 ± 0.001) | | (0.020 ± 0.004) | | | (0.032 ± 0.006) | | | | (0.049 ± 0.008) | | | | | (0.063 ± 0.008) | | | | | |
| (t) Terminal | mm | 0.10 ± 0.04 | 0.15 ± 0.05 | | 0.25 ± 0.15 | | | 0.35 ± 0.15 | | | | 0.50 ± 0.25 | | | | | 0.50 ± 0.25 | | | | | |
| | (in.) | (0.004 ± 0.016) | (0.006 ± 0.002) | | (0.010 ± 0.006) | | | (0.014 ± 0.006) | | | | (0.020 ± 0.010) | | | | | (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 | 0.5 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| (pF) | 1.0 | B | A | | C | C | C | G | G | G | G | J | 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 | J |
| | 1.5 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | J | 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 | J | J | J | J |
| | 2.2 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 3.3 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 4.7 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 6.8 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 10 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 15 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | 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 | J | J | J | J |
| | 22 | B | A | A | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 27 | | A | A | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 33 | | A | A | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 39 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 47 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 56 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 68 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 82 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 100 | | A | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 120 | | | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 150 | | | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 180 | | | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | J |
| | 220 | | | | C | C | C | G | G | G | G | J | J | J | J | J | J | J | J | J | J | M |
| | 270 | | | | C | C | C | G | G | G | G | J | J | J | J | M | J | J | J | J | J | M |
| | 330 | | | | C | C | C | G | G | G | G | J | J | J | J | M | J | J | J | J | J | M |
| | 390 | | | | C | C | C | G | G | G | | J | J | J | J | M | J | J | J | J | J | M |
| | 470 | | | | C | C | C | G | G | G | | J | J | J | J | M | J | J | J | J | J | M |
| | 560 | | | | | | | G | G | G | | J | J | J | J | M | J | J | J | J | J | M |
| | 680 | | | | | | | G | G | G | | J | J | J | J | | J | J | J | J | J | P |
| | 820 | | | | | | | G | G | G | | J | J | J | J | | J | J | J | J | M | |
| | 1000 | | | | | | | G | G | G | | J | J | J | J | | J | J | J | J | Q | |
| | 1200 | | | | | | | | | | | J | J | J | | | J | J | J | J | Q | |
| | 1500 | | | | | | | | | | | J | J | J | | | J | J | J | M | Q | |
| | 1800 | | | | | | | | | | | J | J | J | | | J | J | M | 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 | 0.010 | | | | | | | | | | | | | | | | M | M | | | | |
| (µF) | 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 | | | | | |



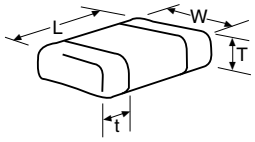

| Letter | A | B | C | E | G | J | K | M | N | P | Q | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Max. Thickness | 0.33 (0.013) | 0.22 (0.009) | 0.56 (0.022) | 0.71 (0.028) | 0.90 (0.035) | 0.94 (0.037) | 1.02 (0.040) | 1.27 (0.050) | 1.40 (0.055) | 1.52 (0.060) | 1.78 (0.070) | 2.29 (0.090) | 2.54 (0.100) | 2.79 (0.110) |
| | PAPER | | | | | | EMBOSSED | | | | | | | |

# C0G (NP0) Dielectric

## Capacitance Range

### PREFERRED SIZES ARE SHADED

| SIZE | | 1210 | | | | | 1812 | | | | | 1825 | | | 2220 | | | 2225 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Soldering | | Reflow Only | | | | | Reflow Only | | | | | Reflow Only | | | Reflow Only | | | Reflow Only | | |
| Packaging | | Paper/Embossed | | | | | All Embossed | | | | | All Embossed | | | All Embossed | | | All Embossed | | |
| (L) Length | mm (in.) | 3.20 ± 0.20 (0.126 ± 0.008) | | | | | 4.50 ± 0.30 (0.177 ± 0.012) | | | | | 4.50 ± 0.30 (0.177 ± 0.012) | | | 5.70 ± 0.40 (0.225 ± 0.016) | | | 5.72 ± 0.25 (0.225 ± 0.010) | | |
| (W) Width | mm (in.) | 2.50 ± 0.20 (0.098 ± 0.008) | | | | | 3.20 ± 0.20 (0.126 ± 0.008) | | | | | 6.40 ± 0.40 (0.252 ± 0.016) | | | 5.00 ± 0.40 (0.197 ± 0.016) | | | 6.35 ± 0.25 (0.250 ± 0.010) | | |
| (t) Terminal | mm (in.) | 0.50 ± 0.25 (0.020 ± 0.010) | | | | | 0.61 ± 0.36 (0.024 ± 0.014) | | | | | 0.61 ± 0.36 (0.024 ± 0.014) | | | 0.64 ± 0.39 (0.025 ± 0.015) | | | 0.64 ± 0.39 (0.025 ± 0.015) | | |
| | WVDC | 25 | 50 | 100 | 200 | 500 | 25 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 50 | 100 | 200 | 50 | 100 | 200 |
| Cap (pF) | 0.5 | | | | | | | | | | | | | | | | | | | |
| | 1.0 | | | | | | | | | | | | | | | | | | | |
| | 1.2 | | | | | | | | | | | | | | | | | | | |
| | 1.5 | | | | | | | | | | | | | | | | | | | |
| | 1.8 | | | | | | | | | | | | | | | | | | | |
| | 2.2 | | | | | | | | | | | | | | | | | | | |
| | 2.7 | | | | | | | | | | | | | | | | | | | |
| | 3.3 | | | | | | | | | | | | | | | | | | | |
| | 3.9 | | | | | | | | | | | | | | | | | | | |
| | 4.7 | | | | | | | | | | | | | | | | | | | |
| | 5.6 | | | | | | | | | | | | | | | | | | | |
| | 6.8 | | | | | | | | | | | | | | | | | | | |
| | 8.2 | | | | | | | | | | | | | | | | | | | |
| | 10 | | | | | J | | | | | | | | | | | | | | |
| | 12 | | | | | J | | | | | | | | | | | | | | |
| | 15 | | | | | J | | | | | | | | | | | | | | |
| | 18 | | | | | J | | | | | | | | | | | | | | |
| | 22 | | | | | J | | | | | | | | | | | | | | |
| | 27 | | | | | J | | | | | | | | | | | | | | |
| | 33 | | | | | J | | | | | | | | | | | | | | |
| | 39 | | | | | J | | | | | | | | | | | | | | |
| | 47 | | | | | J | | | | | | | | | | | | | | |
| | 56 | | | | | J | | | | | | | | | | | | | | |
| | 68 | | | | | J | | | | | | | | | | | | | | |
| | 82 | | | | | J | | | | | | | | | | | | | | |
| | 100 | | | | | J | | | | | | | | | | | | | | |
| | 120 | | | | | J | | | | | | | | | | | | | | |
| | 150 | | | | | J | | | | | | | | | | | | | | |
| | 180 | | | | | J | | | | | | | | | | | | | | |
| | 220 | | | | | J | | | | | | | | | | | | | | |
| | 270 | | | | | J | | | | | | | | | | | | | | |
| | 330 | | | | | J | | | | | | | | | | | | | | |
| | 390 | | | | | M | | | | | | | | | | | | | | |
| | 470 | | | | | M | | | | | | | | | | | | | | |
| | 560 | J | J | J | J | M | | | | | | | | | | | | | | |
| | 680 | J | J | J | J | M | | | | | | | | | | | | | | |
| | 820 | J | J | J | J | M | | | | | | | | | | | | | | |
| | 1000 | J | J | J | J | M | K | K | K | K | M | M | M | M | | | | M | M | P |
| | 1200 | J | J | J | M | M | K | K | K | K | M | M | M | M | | | | M | M | P |
| | 1500 | J | J | J | M | M | K | K | K | K | M | M | M | M | | | | M | M | P |
| | 1800 | J | J | J | M | | K | K | K | K | M | M | M | M | | | | M | M | P |
| | 2200 | J | J | J | Q | | K | K | K | K | P | M | M | M | | | | M | M | P |
| | 2700 | J | J | J | Q | | K | K | K | P | Q | M | M | M | | | | M | M | P |
| | 3300 | J | J | J | | | K | K | K | P | Q | M | M | M | | | X | M | M | P |
| | 3900 | J | J | M | | | K | K | K | P | Q | M | M | M | | | X | M | M | P |
| | 4700 | J | J | M | | | K | K | K | P | Q | M | M | M | X | X | X | M | M | P |
| | 5600 | J | J | | | | K | K | M | P | X | M | M | M | X | X | X | M | M | P |
| | 6800 | J | J | | | | K | K | M | X | | M | M | M | X | X | X | M | M | P |
| | 8200 | J | J | | | | K | M | M | | | M | M | | X | X | X | M | M | P |
| Cap (µF) | 0.010 | J | J | | | | K | M | M | | | M | M | | X | X | X | M | M | P |
| | 0.012 | J | J | | | | K | M | | | | M | M | | X | X | X | M | M | P |
| | 0.015 | | | | | | M | M | | | | M | M | | X | X | X | M | M | Y |
| | 0.018 | | | | | | M | M | | | | P | M | | X | X | X | M | M | Y |
| | 0.022 | | | | | | M | M | | | | P | | | X | X | | M | Y | Y |
| | 0.027 | | | | | | M | M | | | | P | | | X | X | | P | Y | Y |
| | 0.033 | | | | | | M | M | | | | P | | | X | X | | P | | |
| | 0.039 | | | | | | M | M | | | | P | | | Y | | | P | | |
| | 0.047 | | | | | | M | M | | | | P | | | Y | | | P | | |
| | 0.068 | | | | | | M | M | | | | | | | | | | P | | |
| | 0.082 | | | | | | M | M | | | | | | | | | | Q | | |
| | 0.1 | | | | | | | | | | | | | | | | | Q | | |
| | WVDC | 25 | 50 | 100 | 200 | 500 | 25 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 50 | 100 | 200 | 50 | 100 | 200 |
| | SIZE | 1210 | | | | | 1812 | | | | | 1825 | | | 2220 | | | 2225 | | |




| Letter | A | C | E | G | J | K | M | N | P | Q | X | Y | Z |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Max. Thickness | 0.33 (0.013) | 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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