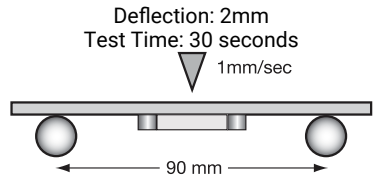


COG (NP0) Dielectric

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 1.0 kHz \pm 10% for cap $>$ 1000 pF Voltage: 1.0Vrms \pm .2V | |
| Q | | $<$ 30 pF: $Q \geq 400 + 20 \times \text{Cap Value}$ ≥ 30 pF: $Q \geq 1000$ | | |
| Insulation Resistance | | 10,000M Ω or 500M Ω - μ F, whichever is less | Charge device with rated voltage for 60 \pm 5 secs @ room temp/humidity | |
| Dielectric Strength | | No breakdown or visual defects | Charge device with 250% of rated voltage for 1-5 seconds, w/charge and discharge current limited to 50 mA (max) Note: Charge device with 150% of rated voltage for 500V devices. | |
| Resistance to Flexure Stresses | Appearance | No defects |  | |
| | Capacitance Variation | $\pm 5\%$ or ± 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 with fresh solder | Dip device in eutectic solder at 230 \pm 5°C for 5.0 \pm 0.5 seconds | |
| Resistance to Solder Heat | Appearance | No defects, $<$ 25% leaching of either end terminal | Dip device in eutectic solder at 260°C for 60sec- onds. Store at room temperature for 24 \pm 2 hours before measuring electrical properties. | |
| | Capacitance Variation | $\leq \pm 2.5\%$ 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: -55°C \pm 2° | 30 \pm 3 minutes |
| | Capacitance Variation | $\leq \pm 2.5\%$ or ± 25 pF, whichever is greater | Step 2: Room Temp | ≤ 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 | ≤ 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 125°C \pm 2°C for 1000 hours (+48, -0). Remove from test chamber and stabilize at room temperature for 24 hours before measuring. | |
| | Capacitance Variation | $\leq \pm 3.0\%$ or $\pm .3$ pF, whichever is greater | | |
| | Q (C=Nominal Cap) | ≥ 30 pF: $Q \geq 350$ ≥ 10 pF, $<$ 30 pF: $Q \geq 275 + 5C/2$ $<$ 10 pF: $Q \geq 200 + 10C$ | | |
| | Insulation Resistance | \geq Initial Value \times 0.3 (See Above) | | |
| Load Humidity | Appearance | No visual defects | Store in a test chamber set at 85°C \pm 2°C/ 85% \pm 5% relative humidity for 1000 hours (+48, -0) with rated voltage applied. Remove from chamber and stabilize at room temperature for 24 \pm 2 hours before measuring. | |
| | Capacitance Variation | $\leq \pm 5.0\%$ or $\pm .5$ pF, whichever is greater | | |
| | Q | ≥ 30 pF: $Q \geq 350$ ≥ 10 pF, $<$ 30 pF: $Q \geq 275 + 5C/2$ $<$ 10 pF: $Q \geq 200 + 10C$ | | |
| | Insulation Resistance | \geq Initial Value \times 0.3 (See Above) | | |
| | Dielectric Strength | Meets Initial Values (As Above) | | |

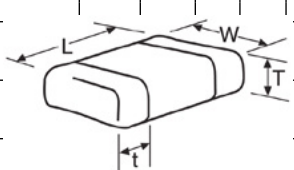
COG (NP0) Dielectric

Capacitance Range



PREFERRED SIZES ARE SHADED

| SIZE | 0101* | | | 0201 | | | 0402 | | | 0603 | | | | 0805 | | | | | 1206 | | | | | |
|--------------|-------------|---------------------------------|--|-------------|--------------------------------|--|-------------|--------------------------------|--|-------------|--------------------------------|--|--|----------------|--------------------------------|--|--|--|----------------|--------------------------------|--|--|--|--|
| | 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 (0.016 ± 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 | 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 | 0.10 ± 0.04 (0.004 ± 0.0016) | | | 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 50 100 200 | | | | 16 25 50 100 200 250 | | | | | 16 25 50 100 200 250 500 | | | | |
| Cap (pF) | 0.5 | A | | | A | | | C | | | G | | | | J | | | | | J | | | | |
| | 1.0 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | |
| 1.2 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1.5 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1.8 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 2.2 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 2.7 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 3.3 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 3.9 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 4.7 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 5.6 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 6.8 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 8.2 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 10 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 12 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 15 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 18 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 22 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 27 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 33 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 39 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 47 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 56 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 68 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 82 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 100 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 120 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 150 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 180 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 220 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 270 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 330 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 390 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 470 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 560 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 680 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 750 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 820 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1000 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1200 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1500 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 1800 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 2200 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 2700 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 3300 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 3900 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 4700 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 5600 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 6800 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| 8200 | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| | B | | | A | | | C | | | G | | | | J | | | | | J | | | | | |
| Cap (µF) | 0.010 | P | | | P | | | P | | | P | | | | P | | | | | P | | | | |
| | 0.012 | P | | | P | | | P | | | P | | | | P | | | | | P | | | | |
| 0.015 | P | | | P | | | P | | | P | | | | P | | | | | P | | | | | |
| | P | | | P | | | P | | | P | | | | P | | | | | P | | | | | |
| 0.018 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.022 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.027 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.033 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.039 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.047 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.068 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.082 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| 0.1 | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| | X | | | X | | | X | | | X | | | | X | | | | | X | | | | | |
| WVDC | | 16 | | | 25 50 | | | 16 25 50 | | | 16 25 50 100 200 | | | | 16 25 50 100 200 250 | | | | | 16 25 50 100 200 250 500 | | | | |
| SIZE | | 0101* | | | 0201 | | | 0402 | | | 0603 | | | | 0805 | | | | | 1206 | | | | |



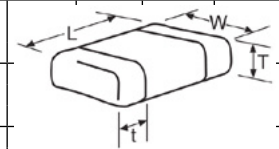
| Letter | A | B | C | E | G | J | K | M | N | P | Q | X | Y | Z |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 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 | 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 | 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 | 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) | | | |
| Cap (pF) | 25 | 50 | 100 | 200 | 500 | 25 | 50 | 100 | 200 | 500 | 50 | 100 | 200 | 50 | 100 | 200 | 50 | 100 | 200 | |
| 3.9 | | | | | | | | | | | | | | | | | | | | |
| 4.7 | | | | | | | | | | | | | | | | | | | | |
| 5.6 | | | | | | | | | | | | | | | | | | | | |
| 6.8 | | | | | | | | | | | | | | | | | | | | |
| 8.2 | | | | | | | | | | | | | | | | | | | | |
| 10 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 12 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 15 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 18 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 22 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 27 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 33 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 39 | M | M | M | M | M | P | P | P | P | P | | | | | | | | | | |
| 47 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 56 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 68 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 82 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 100 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 120 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 150 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 180 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 220 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 270 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 330 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 390 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 470 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 560 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 680 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 820 | P | P | P | P | P | P | P | P | P | P | | | | | | | | | | |
| 1000 | P | P | P | P | P | P | P | P | P | P | M | M | M | | | | | M | M | P |
| 1200 | P | P | P | P | P | P | P | P | P | P | M | M | M | | | | | M | M | P |
| 1500 | P | P | P | P | P | P | P | P | P | P | M | M | M | | | | | M | M | P |
| 1800 | P | P | P | P | P | P | P | P | P | P | M | M | M | | | | | M | M | P |
| 2200 | P | P | P | P | P | P | P | P | P | P | X | X | M | | | | | M | M | P |
| 2700 | P | P | P | P | P | P | P | P | P | Q | X | X | M | | | | | M | M | P |
| 3300 | P | P | P | P | P | P | P | P | P | Q | X | X | X | | | | X | M | M | P |
| 3900 | P | P | P | P | P | P | P | P | P | Q | X | X | X | | | | X | M | M | P |
| 4700 | P | P | P | P | P | P | P | P | P | Y | X | X | X | X | X | X | X | M | M | P |
| 5600 | P | P | P | P | P | P | P | P | P | Y | X | X | X | X | X | X | X | M | M | P |
| 6800 | P | P | P | X | X | P | P | Q | Q | Y | X | X | X | X | X | X | X | M | M | P |
| 8200 | P | P | P | X | X | P | P | Q | Q | Y | X | X | X | X | X | X | X | M | M | P |
| Cap (pF) | 0.010 | P | P | X | X | P | P | Q | Q | Y | X | X | X | X | X | X | X | M | M | P |
| 0.012 | X | X | X | X | X | P | P | Q | X | Y | X | X | X | X | X | X | X | M | M | P |
| 0.015 | X | X | X | Z | Z | P | P | Q | X | Y | X | X | X | X | X | X | X | M | M | Y |
| 0.018 | X | X | Z | Z | | P | P | X | X | Y | X | X | X | X | X | X | X | M | M | Y |
| 0.022 | X | X | Z | Z | | P | P | X | X | | X | X | X | X | X | X | | M | Y | Y |
| 0.027 | X | Z | Z | Z | | Q | X | X | Z | | X | X | Y | X | X | | P | Y | Y | Y |
| 0.033 | X | Z | Z | Z | | Q | X | X | Z | | X | X | | X | X | | X | Y | Y | Y |
| 0.039 | Z | Z | Z | | | X | X | Z | Z | | X | | | Y | | | X | Y | Y | Y |
| 0.047 | Z | Z | Z | | | X | X | Z | Z | | X | | | Y | | | X | Z | | |
| 0.068 | | | | | | Z | Z | Z | | | | | | Z | | | X | Z | | |
| 0.082 | | | | | | Z | Z | Z | | | | | | Z | | | X | Z | | |
| 0.1 | | | | | | Z | Z | Z | | | | | | Z | | | Z | Z | | |
| 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 | 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 | | | | | | EMBOSSSED | | | | | | | |

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