



Surface Mount Multilayer Ceramic Capacitors

Specifications

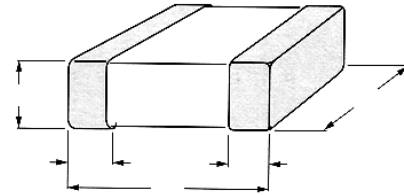


Part Number Determination

| VJ0402A101JXQCW1BC | | | | | | | |
|--|--|--|--|--------------|---|--|----------------------------------|
| VJ0402 | A | 101 | J | X | Q | C | W1BC |
| SIZE | DIELECTRIC | CAPACITANCE | TOLERANCE | TERMINATION | VOLTAGE | PACKAGING | TECHNOLOGY |
| VJ0402 VJ0603 VJ0805 VJ1206 VJ1210 VJ1808 VJ1812 | A=COG (NPO) G=X5R Y=X7R V=Y5V | 2 significant digits + # of zeros 101=100pF 102=1000pF 1R0=1.0pF | B=±0.1pF C=±0.25pF D=±0.5pF J=±5% K=±10% M=±20% Z=-20/+80% | X=Ni Barrier | Y=6.3V Q=10V J=16V K,X=25V A=50V B=100V C=200V P=250V E=500V G=1000V F=2000V H=3000V | C=7" Reel/Paper P=13" Reel/Paper T=7" Reel/Plastic R=13" Reel/Plastic | Process code for Vishay BCC MLCC |

Package Dimensions in(mm)

| Size Code | L | W | T Max. | MB |
|-----------|---------------------------|--|-----------------|--|
| 0402 | 0.040±0.002 (1.0±0.05) | 0.020±0.002 (0.5±0.05) | 0.022 (0.55) | 0.010+0.002/-0.004 (0.25+0.05/-0.1) |
| 0603 | 0.063±0.004 (1.6±0.10) | 0.030±0.003 (0.8±0.07) | 0.035 (0.87) | 0.015±0.006 (0.40±0.15) |
| 0805 | 0.080±0.006 (2.0±0.15) | 0.050±0.004 (1.25±0.10) | 0.053 (1.35) | 0.020±0.008 (0.50±0.20) |
| 1206 | 0.125±0.006 (3.2±0.15) | 0.063±0.006 (1.6±0.15) 0.063±0.008 (1.6±0.20) | 0.069 (1.8) | 0.025±0.008 (0.60±0.20) |



Land Pattern

| Size Code | A | B | C | D | E | F | G |
|-------------|------|------|------|------|------|------|------|
| 0402 reflow | 1.50 | 0.50 | 0.50 | 0.50 | 0.10 | 1.75 | 0.95 |
| 0603 reflow | 2.30 | 0.70 | 0.80 | 0.80 | 0.20 | 2.55 | 1.40 |
| 0603 wave | 2.40 | 1.00 | 0.70 | 0.80 | 0.20 | 3.10 | 1.90 |
| 0805 reflow | 2.80 | 1.00 | 0.90 | 1.30 | 0.40 | 3.08 | 1.85 |
| 0805 wave | 3.20 | 1.40 | 0.90 | 1.30 | 0.36 | 4.10 | 2.50 |
| 1206 reflow | 4.00 | 2.20 | 0.90 | 1.60 | 1.60 | 4.25 | 2.25 |
| 1206 wave | 4.80 | 2.30 | 1.25 | 1.70 | 1.25 | 5.90 | 3.20 |

