



Click [here](#) for the 3D model.

### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 0402            |
| L         | 1mm +/-0.05mm   |
| W         | 0.5mm +/-0.05mm |
| T         | 0.5mm +/-0.05mm |
| S         | 0.3mm MIN       |
| B         | 0.3mm +/-0.1mm  |

### Packaging Specifications

|                    |                        |
|--------------------|------------------------|
| Packaging          | T&R, 180mm, Paper Tape |
| Packaging Quantity | 10000                  |

### General Information

|                  |                                                                                                                              |
|------------------|------------------------------------------------------------------------------------------------------------------------------|
| Series           | SMD COTS COG                                                                                                                 |
| Style            | SMD Chip                                                                                                                     |
| Description      | SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I                                                                             |
| Features         | Ultra-Stable, Low Loss, Class I                                                                                              |
| RoHS             | No                                                                                                                           |
| Prop 65          | <b>⚠ WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">http://www.p65warnings.ca.gov</a> . |
| Termination      | Lead (SnPb)                                                                                                                  |
| Marking          | No                                                                                                                           |
| Failure Rate     | Testing per MIL-PRF-55681 PDA 8%, DPA per EIA-469, Humidity per MIL-STD-202, Method 103, Condition A                         |
| AEC-Q200         | No                                                                                                                           |
| Component Weight | 1.06 mg                                                                                                                      |
| Shelf Life       | 78 Weeks                                                                                                                     |
| MSL              | 1                                                                                                                            |

### Specifications

|                                                                    |                        |
|--------------------------------------------------------------------|------------------------|
| Capacitance                                                        | 470 pF                 |
| Measurement Condition                                              | 1 MHz 1.0Vrms          |
| Capacitance Tolerance                                              | 5%                     |
| Voltage DC                                                         | 50 VDC                 |
| Dielectric Withstanding Voltage                                    | 125 VDC                |
| Temperature Range                                                  | -55/+125°C             |
| Temperature Coefficient                                            | COG                    |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1MHz 1.0Vrms |
| Dissipation Factor                                                 | 0.1% 1 MHz 1.0Vrms     |
| Aging Rate                                                         | 0% Loss/Decade Hour    |
| Insulation Resistance                                              | 100 GOhms              |