



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

**General Information**

|                          |   |
|--------------------------|---|
| Series                   | SMD Auto COG  |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade |
| Features                 | Ultra-Stable, Low Loss, Automotive Grade            |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Marking                  | No  |
| Qualifications           | AEC-Q200  |
| Typical Component Weight | 1.16 mg   |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

**Dimensions**

|                      |                  |
|----------------------|------------------|
| L                    | 1mm +/-0.05mm    |
| W                    | 0.5mm +/-0.05mm  |
| T                    | 0.55mm +/-0.05mm |
| S                    | 0.3mm MIN        |
| B                    | 0.3mm +/-0.1mm   |
| Case Code (EIA / mm) | 0402 / 1005      |

**Packaging Specifications**

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

**Specifications**

|  |                        |
|--|------------------------|
| Capacitance  | 330 pF                 |
| Measurement Condition  | 1 MHz 1.0Vrms          |
| Tolerance  | 5%                     |
| Voltage DC   | 250 VDC                |
| Dielectric Withstanding Voltage                                    | 625 VDC                |
| Temperature Range  | -55/+125°C             |
| Temp. 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              |

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