



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

General Information

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|--------------------------|---|
| 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 | false |
| Qualifications | AEC-Q200 |
| AEC-Q200 | Yes |
| Typical Component Weight | 1.06 mg |
| Shelf Life | 78 Weeks |
| MSL | 1 |

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

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

Specifications

| | |
|--|------------------------|
| Capacitance | 510 pF |
| Measurement Condition | 1MHz 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% 1MHz 1.0Vrms |
| Aging Rate | 0% Loss/Decade Hour |
| Insulation Resistance | 100 GOhms |