



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  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 87 mg   |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

#### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1812            |
| L         | 4.5mm +/-0.3mm  |
| W         | 3.2mm +/-0.3mm  |
| T         | 2mm +/-0.20mm   |
| S         | 2.3mm MIN       |
| B         | 0.6mm +/-0.35mm |

#### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 500                      |

#### Specifications

|  |                        |
|--|------------------------|
| Capacitance  | 0.082 uF               |
| Measurement Condition  | 1 kHz 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, 1kHz 1.0Vrms |
| Dissipation Factor   | 0.1% 1 kHz 1.0Vrms     |
| Aging Rate   | 0% Loss/Decade Hour    |
| Insulation Resistance  | 12.1951 GOhms          |

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