

## C0805C183K5GACAUTO

SMD Auto COG, Ceramic, 0.018 uF, 10%, 50 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade, 0805



Click here for the 3D model.

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0805            |
| L          | 2mm +/-0.2mm    |
| W          | 1.25mm +/-0.2mm |
| Т          | 0.9mm +/-0.10mm |
| S          | 0.75mm MIN      |
| В          | 0.5mm +/-0.25mm |

| Packaging Specifications |                        |  |
|--------------------------|------------------------|--|
| Packaging                | T&R, 180mm, Paper Tape |  |
| Packaging Quantity       | 4000                   |  |

| General Information |  |
|---------------------|--|
| Series              | SMD Auto COG   |
| Style               | SMD Chip   |
| Description         | SMD, MLCC, Ultra-Stable, Low Loss,<br>Automotive Grade |
| Features            | Ultra-Stable, Low Loss, Automotive Grade               |
| RoHS                | Yes  |
| Termination         | Tin  |
| Marking             | No   |
| Qualifications      | AEC-Q200   |
| AEC-Q200            | Yes  |
| Component<br>Weight | 13 mg  |
| Shelf Life          | 78 Weeks   |
| MSL                 | 1  |

| Specifications   |                           |
|--|---------------------------|
| •  |                           |
| Capacitance  | 0.018 uF                  |
| Measurement Condition  | 1 kHz 1.0Vrms             |
| Capacitance Tolerance  | 10%                       |
| 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, 1kHz<br>1.0Vrms |
| Dissipation Factor   | 0.1% 1 kHz 1.0Vrms        |
| Aging Rate   | 0% Loss/Decade<br>Hour    |
| Insulation Resistance  | 55.5556 GOhms             |

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