

SMD Auto COG, Ceramic, 47 pF, 5%, 100 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade, 0603



**Dimensions**

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.07mm  |
| S          | 0.7mm MIN        |
| B          | 0.35mm +/-0.15mm |

**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, Automotive Grade |
| Features:         | Ultra-Stable, Low Loss, Automotive Grade            |
| RoHS:             | Yes   |
| Termination:      | Tin   |
| Marking:          | No  |
| Qualifications:   | AEC-Q200  |
| AEC-Q200:         | Yes   |
| Component Weight: | 3700 ug   |
| Shelf Life:       | 78 Weeks  |
| MSL:              | 1   |

**Specifications**

|   |                           |
|---|---------------------------|
| Capacitance:  | 47 pF                     |
| Measurement Condition:  | 1 MHz 1.0Vrms             |
| Capacitance Tolerance:  | 5%                        |
| Voltage DC:   | 100 VDC                   |
| Dielectric Withstanding Voltage:                                    | 250 VDC                   |
| Temperature Range:  | -55/+125°C                |
| Temperature Coefficient:  | COG                       |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 30 ppm/C, 1MegaHz 1.0Vrms |
| Dissipation Factor:   | 0.1% 1 MHz 1.0Vrms        |
| Aging Rate:   | 0% Loss/Decade Hour       |
| Insulation Resistance:  | 100 GOhms                 |

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