

## C1812C470KDGACAUTO

SMD Auto COG HV, Ceramic, 47 pF, 10%, 1000 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, High Voltage, Automotive Grade, 1812



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| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 1812            |
| L          | 4.5mm +/-0.3mm  |
| W          | 3.2mm +/-0.3mm  |
| Т          | 1mm +/-0.10mm   |
| В          | 0.6mm +/-0.35mm |

| Packaging Specifications |                          |
|--------------------------|--------------------------|
| Packaging                | T&R, 180mm, Plastic Tape |
| Packaging Quantity       | 1000                     |

| General Information |  |
|---------------------|--|
| Series              | SMD Auto COG HV  |
| Style               | SMD Chip   |
| Description         | SMD, MLCC, Ultra-Stable, Low Loss, High<br>Voltage, Automotive Grade |
| Features            | Ultra-Stable, Low Loss, Automotive Grade                             |
| RoHS                | Yes  |
| Termination         | Tin  |
| Marking             | No   |
| Qualifications      | AEC-Q200   |
| AEC-Q200            | Yes  |
| Component<br>Weight | 67 mg  |
| Shelf Life          | 78 Weeks   |
| MSL                 | 1  |

| Specifications   |                              |
|--|------------------------------|
| Capacitance  | 47 pF                        |
| Measurement Condition  | 1 MHz 1.0Vrms                |
| Capacitance Tolerance  | 10%                          |
| Voltage DC   | 1000 VDC                     |
| Dielectric Withstanding Voltage                                    | 1200 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<br>1.0Vrms |
| Dissipation Factor   | 0.1% 1 MHz 1.0Vrms           |
| Aging Rate   | 0% Loss/Decade<br>Hour       |
| Insulation Resistance  | 100 GOhms                    |

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