

## C1206C102K5RECAUTO

ESD SMD Auto X7R, Ceramic, 1000 pF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade, 1206



Click here for the 3D model.

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 1206             |
| L          | 3.2mm +/-0.2mm   |
| W          | 1.6mm +/-0.2mm   |
| Т          | 0.78mm +/-0.10mm |
| В          | 0.5mm +/-0.25mm  |

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

| General Information |  |
|---------------------|--|
| Series              | ESD SMD Auto X7R   |
| Style               | SMD Chip   |
| Description         | SMD, MLCC, Temperature Stable, Electro Static<br>Discharge, Automotive Grade |
| Features            | Temperature Stable, Automotive Grade   |
| RoHS                | Yes  |
| Termination         | Tin  |
| Marking             | No   |
| Qualifications      | AEC-Q200   |
| AEC-Q200            | Yes  |
| Component<br>Weight | 17 mg  |
| Shelf Life          | 78 Weeks   |
| MSL                 | 1  |

| Specifications   |  |
|--|--|
| Capacitance  | 1000 pF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                      |
| Capacitance Tolerance  | 10%  |
| Voltage DC   | 50 VDC   |
| ESD Level per AEC-Q200   | 4,000 V ESD Level                                  |
| Dielectric Withstanding Voltage                                    | 125 VDC  |
| Temperature Range  | -55/+125°C   |
| Temperature Coefficient  | X7R  |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                                  |
| Dissipation Factor   | 2.5% 1 kHz 1.0Vrms                                 |
| Aging Rate   | 3% Loss/Decade Hour:<br>Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms  |

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