



Click [here](#) for the 3D model.

#### General Information

|                          |   |
|--------------------------|---|
| Series                   | ESD SMD Auto X7R  |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade |
| Features                 | Temperature Stable, Automotive Grade                                      |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Marking                  | No  |
| Qualifications           | AEC-Q200  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 25 mg   |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

#### Specifications

|  |   |
|--|---|
| Capacitance  | 0.68 uF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | 10%   |
| Voltage DC   | 25 VDC  |
| ESD Level per AEC-Q200   | 25,000 V ESD Level                              |
| Dielectric Withstanding Voltage                                    | 62.5 VDC  |
| Temperature Range  | -55/+125°C                                      |
| Temp. Coefficient  | X7R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor   | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 735.3 MOhms                                     |

#### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1206            |
| L         | 3.2mm +/-0.2mm  |
| W         | 1.6mm +/-0.2mm  |
| T         | 1mm +/-0.10mm   |
| S         | 1.5mm MIN       |
| B         | 0.5mm +/-0.25mm |

#### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 2500                     |

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