



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

### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.15mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.10mm  |
| 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 X8G HVHT150C   |
| Style            | SMD Chip  |
| Description      | SMD, MLCC, High Voltage, High Temperature, Ultra-Stable, Automotive Grade |
| Features         | High Temperature, Ultra-Stable, Automotive Grade                          |
| RoHS             | Yes   |
| Termination      | Tin   |
| Marking          | No  |
| Qualifications   | AEC-Q200  |
| AEC-Q200         | Yes   |
| Component Weight | 4600 ug   |
| Shelf Life       | 78 Weeks  |
| MSL              | 1   |

### Specifications

|  |   |
|--|---|
| Capacitance  | 330 pF  |
| Measurement Condition  | 1 MHz 1.0Vrms                                   |
| Capacitance Tolerance  | 5%  |
| Voltage DC   | 500 VDC   |
| Dielectric Withstanding Voltage                                    | 1250 VDC  |
| Temperature Range  | -55/+150°C                                      |
| Temperature Coefficient  | X8G   |
| 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: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |

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