



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

### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 0402            |
| L         | 1mm +/-0.05mm   |
| W         | 0.5mm +/-0.05mm |
| T         | 0.5mm +/-0.05mm |
| S         | 0.3mm MIN       |
| B         | 0.3mm +/-0.1mm  |

### Packaging Specifications

|                    |                        |
|--------------------|------------------------|
| Packaging          | T&R, 180mm, Paper Tape |
| Packaging Quantity | 10000                  |

### General Information

|                  |   |
|------------------|---|
| Series           | SMD Auto X8R HT150C   |
| Style            | SMD Chip  |
| Description      | SMD, MLCC, 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 | 1.21 mg   |
| Shelf Life       | 78 Weeks  |
| MSL              | 1   |

### Specifications

|  |   |
|--|---|
| Capacitance  | 20 pF   |
| Measurement Condition  | 1 MHz 1.0Vrms                                   |
| Capacitance Tolerance  | 2%  |
| Voltage DC   | 16 VDC  |
| Dielectric Withstanding Voltage                                    | 40 VDC  |
| Temperature Range  | -55/+150°C                                      |
| Temperature Coefficient  | X8R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1MegaHz 1.0Vrms                            |
| Dissipation Factor   | 2.5% 1MHz 1.0Vrms                               |
| Aging Rate   | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |