



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

#### 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                                                    |
| Typical Component Weight | 1.21 mg                                                     |
| Shelf Life               | 78 Weeks                                                    |
| MSL                      | 1                                                           |

#### Dimensions

|                      |                 |
|----------------------|-----------------|
| L                    | 1mm +/-0.05mm   |
| W                    | 0.5mm +/-0.05mm |
| T                    | 0.5mm +/-0.05mm |
| S                    | 0.3mm MIN       |
| B                    | 0.3mm +/-0.1mm  |
| Case Code (EIA / mm) | 0402 / 1005     |

#### Packaging Specifications

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

#### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 5.6 pF                                          |
| Measurement Condition                                              | 1 MHz 1.0Vrms                                   |
| Tolerance                                                          | +/-0.25 pF                                      |
| Voltage DC                                                         | 16 VDC                                          |
| Dielectric Withstanding Voltage                                    | 40 VDC                                          |
| Temperature Range                                                  | -55/+150°C                                      |
| Temp. Coefficient                                                  | X8R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1MHz 1.0Vrms                               |
| Dissipation Factor                                                 | 2.5% 1 MHz 1.0Vrms                              |
| Aging Rate                                                         | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

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