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#### 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                                                         |
| Typical Component Weight | 11 mg                                                       |
| Shelf Life               | 78 Weeks                                                    |
| MSL                      | 1                                                           |

#### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 4.7 pF                                          |
| Measurement Condition                                              | 1 MHz 1.0Vrms                                   |
| Tolerance                                                          | +/-0.25 pF                                      |
| Voltage DC                                                         | 50 VDC                                          |
| Dielectric Withstanding Voltage                                    | 125 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% 1MHz 1.0Vrms                               |
| Aging Rate                                                         | 0% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 100 GOhms                                       |

#### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0805             |
| L         | 2mm +/-0.2mm     |
| W         | 1.25mm +/-0.2mm  |
| T         | 0.78mm +/-0.10mm |
| S         | 0.7mm MIN        |
| B         | 0.5mm +/-0.25mm  |

#### Packaging Specifications

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

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