



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

#### General Information

|                          |   |
|--------------------------|---|
| Series                   | SMD Auto U2J  |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, Ultra-Stable, Low Loss, Automotive Grade |
| Features                 | Ultra-Stable, Low Loss, Automotive Grade            |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Marking                  | No  |
| Qualifications           | AEC-Q200  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 1.06 mg   |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

#### 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                  |

#### Specifications

|  |   |
|--|---|
| Capacitance  | 680 pF  |
| Measurement Condition  | 1 MHz 1.0Vrms                                     |
| Tolerance  | 1%  |
| Voltage DC   | 50 VDC  |
| Dielectric Withstanding Voltage                                    | 125 VDC   |
| Temperature Range  | -55/+125°C  |
| Temp. Coefficient  | U2J   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | -750+/-120 ppm/C, 1MHz 1.0Vrms                    |
| Dissipation Factor   | 0.1% 1 MHz 1.0Vrms                                |
| Aging Rate   | 0.1% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms   |

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