



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

### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0603             |
| L         | 1.6mm +/-0.15mm  |
| W         | 0.8mm +/-0.15mm  |
| T         | 0.8mm +/-0.07mm  |
| S         | 0.7mm MIN        |
| B         | 0.35mm +/-0.15mm |

### Packaging Specifications

|                    |                                   |
|--------------------|-----------------------------------|
| Packaging          | T&R, 180mm, 2mm Pitch, Paper Tape |
| Packaging Quantity | 8000                              |

### General Information

|                  |   |
|------------------|---|
| Series           | SMD Auto X7R                                    |
| Style            | SMD Chip  |
| Description      | SMD, MLCC, Temperature Stable, Automotive Grade |
| Features         | Temperature Stable, Automotive Grade            |
| RoHS             | Yes   |
| Termination      | Tin   |
| Marking          | No  |
| Qualifications   | AEC-Q200  |
| AEC-Q200         | Yes   |
| Component Weight | 4.8 mg  |
| Shelf Life       | 78 Weeks  |
| MSL              | 1   |

### Specifications

|  |   |
|--|---|
| Capacitance  | 0.47 uF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 10%   |
| Voltage DC   | 16 VDC  |
| Dielectric Withstanding Voltage                                    | 40 VDC  |
| Temperature Range  | -55/+125°C                                      |
| Temperature Coefficient  | X7R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor   | 3.5% 1kHz 1.0Vrms                               |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 212.8 MOhms                                     |