



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

**General Information**

|                          |   |
|--------------------------|---|
| Series                   | SMD Auto X7R FF   |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, FF-CAP, Floating Electrode, Automotive Grade |
| Features                 | FF-CAP, Floating Electrode, Automotive Grade            |
| RoHS                     | Yes   |
| Termination              | Flexible Termination                                    |
| Marking                  | No  |
| Qualifications           | AEC-Q200  |
| Typical Component Weight | 185 mg  |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

**Dimensions**

|                      |                 |
|----------------------|-----------------|
| L                    | 4.5mm +/-0.4mm  |
| W                    | 3.2mm +/-0.3mm  |
| T                    | 1.6mm +/-0.2mm  |
| S                    | 2.3mm MIN       |
| B                    | 0.7mm +/-0.35mm |
| Case Code (EIA / mm) | 1812 / 4532     |

**Packaging Specifications**

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 1000                     |

**Specifications**

|  |   |
|--|---|
| Capacitance  | 1 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | 5%  |
| Voltage DC   | 50 VDC  |
| Dielectric Withstanding Voltage                                    | 125 VDC   |
| Temperature Range  | -55/+125°C                                      |
| Temp. Coefficient  | X7R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%   |
| Dissipation Factor   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 1 GOhms   |

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