



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

#### General Information

|                          |   |
|--------------------------|---|
| Series                   | SMD Auto X7R HV FF  |
| Style                    | SMD Chip  |
| Description              | SMD, MLCC, FF-CAP, Floating Electrode, High Voltage, Automotive Grade |
| Features                 | FF-CAP, Floating Electrode, High Voltage, Automotive Grade            |
| RoHS                     | Yes   |
| Termination              | Flexible Termination  |
| Marking                  | false   |
| Qualifications           | AEC-Q200  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 185 mg  |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

#### Specifications

|  |   |
|--|---|
| Capacitance  | 0.033 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 10%   |
| Voltage DC   | 1000 VDC  |
| Dielectric Withstanding Voltage                                    | 1200 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   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 3.0303 GOhms                                    |

#### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1812            |
| L         | 4.5mm +/-0.4mm  |
| W         | 3.2mm +/-0.3mm  |
| T         | 2.5mm +/-0.20mm |
| S         | 2.3mm MIN       |
| B         | 0.7mm +/-0.35mm |

#### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 500                      |

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