



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

**General Information**

|                          |                                                                           |
|--------------------------|---------------------------------------------------------------------------|
| Series                   | ESD SMD Auto X7R                                                          |
| Style                    | SMD Chip                                                                  |
| Description              | SMD, MLCC, Temperature Stable, Electro Static Discharge, Automotive Grade |
| Features                 | Temperature Stable, Automotive Grade                                      |
| RoHS                     | Yes                                                                       |
| Termination              | Tin                                                                       |
| Marking                  | No                                                                        |
| Qualifications           | AEC-Q200                                                                  |
| Typical Component Weight | 17 mg                                                                     |
| Shelf Life               | 78 Weeks                                                                  |
| MSL                      | 1                                                                         |

**Specifications**

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 0.033 uF                                        |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 20%                                             |
| Voltage DC                                                         | 16 VDC                                          |
| ESD Level per AEC-Q200                                             | 25,000 V ESD Level                              |
| Dielectric Withstanding Voltage                                    | 40 VDC                                          |
| Temperature Range                                                  | -55/+125°C                                      |
| Temp. Coefficient                                                  | X7R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor                                                 | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 30.303 GOhms                                    |

**Dimensions**

|                      |                  |
|----------------------|------------------|
| L                    | 3.2mm +/-0.2mm   |
| W                    | 1.6mm +/-0.2mm   |
| T                    | 0.78mm +/-0.10mm |
| S                    | 1.5mm MIN        |
| B                    | 0.5mm +/-0.25mm  |
| Case Code (EIA / mm) | 1206 / 3216      |

**Packaging Specifications**

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

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