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#### General Information

|                          |   |
|--------------------------|---|
| Series                   | SMD COTS X7R                                  |
| Style                    | SMD Chip                                      |
| Description              | SMD, MLCC, COTS, Temperature Stable, Class II |
| Features                 | Temperature Stable, Class II                  |
| RoHS                     | Yes   |
| Termination              | Tin   |
| Marking                  | No  |
| Failure Rate             | Testing per MIL-PRF-55681 PDA 8%              |
| AEC-Q200                 | No  |
| Typical Component Weight | 11 mg   |
| Shelf Life               | 78 Weeks                                      |
| MSL                      | 1   |

#### Specifications

|  |   |
|--|---|
| Capacitance  | 470 pF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | 5%  |
| Voltage DC   | 100 VDC   |
| Dielectric Withstanding Voltage                                    | 250 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   | 2.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |

#### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0805             |
| L         | 2mm +/-0.2mm     |
| W         | 1.25mm +/-0.2mm  |
| T         | 0.78mm +/-0.10mm |
| S         | 0.7mm MIN        |
| B         | 0.5mm +/-0.25mm  |

#### Packaging Specifications

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

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