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#### General Information

|                          |                                             |
|--------------------------|---------------------------------------------|
| Series                   | SMD Comm X7R HV                             |
| Style                    | SMD Chip                                    |
| Description              | SMD, MLCC, High Voltage, Temperature Stable |
| Features                 | High Voltage                                |
| RoHS                     | Yes                                         |
| Termination              | Tin                                         |
| Marking                  | No                                          |
| AEC-Q200                 | No                                          |
| Typical Component Weight | 21 mg                                       |
| Shelf Life               | 78 Weeks                                    |
| MSL                      | 1                                           |

#### Specifications

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 100 pF                                          |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 5%                                              |
| Voltage DC                                                         | 500 VDC                                         |
| Dielectric Withstanding Voltage                                    | 750 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% 1kHz 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         | 1.25mm +/-0.15mm |
| S         | 0.7mm MIN        |
| B         | 0.5mm +/-0.25mm  |

#### Packaging Specifications

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 2500                     |

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