



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

**General Information**

|                          |   |
|--------------------------|---|
| Series                   | SMD Comm X5R                            |
| Style                    | SMD Chip                                |
| Description              | SMD, MLCC, Temperature Stable, Class II |
| Features                 | Temperature Stable, Class II            |
| RoHS                     | Yes                                     |
| Termination              | Tin                                     |
| Marking                  | No                                      |
| Typical Component Weight | 6.5 mg                                  |
| Shelf Life               | 78 Weeks                                |
| MSL                      | 1                                       |

**Specifications**

|  |   |
|--|---|
| Capacitance  | 2.2 uF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                 |
| Tolerance  | 10%   |
| Voltage DC   | 6.3 VDC                                       |
| Dielectric Withstanding Voltage                                    | 15.75 VDC                                     |
| Temperature Range  | -55/+85°C                                     |
| Temp. Coefficient  | X5R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 0.5Vrms                             |
| Dissipation Factor   | 10% 1 kHz 1.0Vrms                             |
| Aging Rate   | 5% Loss/Decade Hour: Referee Time is 48 Hours |
| Insulation Resistance  | 45.5 MOhms                                    |

**Dimensions**

|                      |                  |
|----------------------|------------------|
| L                    | 1.6mm +/-0.15mm  |
| W                    | 0.8mm +/-0.15mm  |
| T                    | 0.8mm +/-0.10mm  |
| S                    | 0.5mm MIN        |
| B                    | 0.35mm +/-0.15mm |
| Case Code (EIA / mm) | 0603 / 1608      |

**Packaging Specifications**

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

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