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**General Information**

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| Series                   | SMD Comm X7R FE                                           |
| Style                    | SMD Chip                                                  |
| Description              | SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable |
| Features                 | FE-CAP, Floating Electrode, Temperature Stable            |
| RoHS                     | Yes                                                       |
| Termination              | Tin                                                       |
| Marking                  | No                                                        |
| Typical Component Weight | 85 mg                                                     |
| Shelf Life               | 78 Weeks                                                  |
| MSL                      | 1                                                         |

**Specifications**

|                                                                    |                                                 |
|--------------------------------------------------------------------|-------------------------------------------------|
| Capacitance                                                        | 0.47 uF                                         |
| Measurement Condition                                              | 1 kHz 1.0Vrms                                   |
| Tolerance                                                          | 10%                                             |
| Voltage DC                                                         | 10 VDC                                          |
| Dielectric Withstanding Voltage                                    | 25 VDC                                          |
| Temperature Range                                                  | -55/+125°C                                      |
| Temp. Coefficient                                                  | X7R                                             |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%                                             |
| Dissipation Factor                                                 | 5% 1 kHz 1.0Vrms                                |
| Aging Rate                                                         | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance                                              | 1.0638 GOhms                                    |

**Dimensions**

|                      |                 |
|----------------------|-----------------|
| L                    | 3.2mm +/-0.2mm  |
| W                    | 2.5mm +/-0.2mm  |
| T                    | 1.7mm +/-0.2mm  |
| S                    | 1.5mm MIN       |
| B                    | 0.5mm +/-0.25mm |
| Case Code (EIA / mm) | 1210 / 3225     |

**Packaging Specifications**

|                    |                          |
|--------------------|--------------------------|
| Packaging          | T&R, 180mm, Plastic Tape |
| Packaging Quantity | 2000                     |

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