

SMD Comm X7R Flex, Ceramic, 1 uF, 10%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1812

**Dimensions**

|           |                 |
|-----------|-----------------|
| Chip Size | 1812            |
| L         | 4.5mm +/-0.4mm  |
| W         | 3.2mm +/-0.3mm  |
| T         | 1.3mm +/-0.10mm |
| B         | 0.7mm +/-0.35mm |

**Packaging Specifications**

|                     |           |
|---------------------|-----------|
| Packaging:          | Bulk, Bag |
| Packaging Quantity: | 1         |

**General Information**

|                |                                                                          |
|----------------|--------------------------------------------------------------------------|
| Series:        | SMD Comm X7R Flex                                                        |
| Style:         | SMD Chip                                                                 |
| Description:   | SMD, MLCC, FT-CAP, Temperature Stable                                    |
| Features:      | FT-CAP, Temperature Stable                                               |
| RoHS:          | Yes                                                                      |
| Termination:   | Flexible Termination                                                     |
| Marking:       | No                                                                       |
| AEC-Q200:      | No                                                                       |
| Miscellaneous: | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| Shelf Life:    | 78 Weeks                                                                 |
| MSL:           | 1                                                                        |

**Specifications**

|                                                                     |                     |
|---------------------------------------------------------------------|---------------------|
| Capacitance:                                                        | 1 uF                |
| Capacitance Tolerance:                                              | 10%                 |
| Voltage DC:                                                         | 50 VDC              |
| Dielectric Withstanding Voltage:                                    | 125 VDC             |
| Temperature Range:                                                  | -55/+125°C          |
| Temperature Coefficient:                                            | X7R                 |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 15%, 1kHz 1.0Vrms   |
| Dissipation Factor:                                                 | 2.50% 1kHz 1.0Vrms  |
| Aging Rate:                                                         | 3% Loss/Decade Hour |
| Insulation Resistance:                                              | 1 GOhms             |