

**KEMET Part Number: C1812X223K1RACTU**  
(C1812X223K1RAC7800)

SMD Comm X7R Flex, Ceramic, 0.022 uF, 10%, 100 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 1812



**Dimensions**

| Chip Size |  | 1812            |
|-----------|--|-----------------|
| <b>L</b>  |  | 4.5mm +/-0.4mm  |
| <b>W</b>  |  | 3.2mm +/-0.3mm  |
| <b>T</b>  |  | 1mm +/-0.10mm   |
| <b>B</b>  |  | 0.7mm +/-0.35mm |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 1000                     |

**General Information**

|                          |                                       |
|--------------------------|---------------------------------------|
| <b>Series:</b>           | SMD Comm X7R Flex                     |
| <b>Style:</b>            | SMD Chip                              |
| <b>Description:</b>      | SMD, MLCC, FT-CAP, Temperature Stable |
| <b>Features:</b>         | FT-CAP, Temperature Stable            |
| <b>RoHS:</b>             | Yes                                   |
| <b>Termination:</b>      | Flexible Termination                  |
| <b>Marking:</b>          | No                                    |
| <b>AEC-Q200:</b>         | No                                    |
| <b>Component Weight:</b> | 95 mg                                 |
| <b>Shelf Life:</b>       | 78 Weeks                              |
| <b>MSL:</b>              | 1                                     |

**Specifications**

|  |   |
|--|---|
| <b>Capacitance:</b>  | 0.022 uF  |
| <b>Measurement Condition:</b>  | 1 kHz 1.0Vrms                                   |
| <b>Capacitance Tolerance:</b>  | 10%   |
| <b>Voltage DC:</b>   | 100 VDC   |
| <b>Dielectric Withstanding Voltage:</b>                                    | 250 VDC   |
| <b>Temperature Range:</b>  | -55/+125°C                                      |
| <b>Temperature Coefficient:</b>  | X7R   |
| <b>Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC):</b> | 15%, 1kHz 1.0Vrms                               |
| <b>Dissipation Factor:</b>   | 2.5% 1 kHz 1.0Vrms                              |
| <b>Aging Rate:</b>   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| <b>Insulation Resistance:</b>  | 45.4545 GOhms                                   |