

**KEMET Part Number: C0805X225K9RACTU**  
(C0805X225K9RAC7800)

SMD Comm X7R Flex, Ceramic, 2.2 uF, 10%, 6.3 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0805



**Dimensions**

| Chip Size | 0805             |
|-----------|------------------|
| L         | 2mm +/-0.3mm     |
| W         | 1.25mm +/-0.3mm  |
| T         | 1.25mm +/-0.15mm |
| S         | 0.75mm MIN       |
| B         | 0.5mm +/-0.25mm  |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 2500                     |

**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>Shelf Life:</b>  | 78 Weeks                              |
| <b>MSL:</b>         | 1                                     |

**Specifications**

|  |   |
|--|---|
| <b>Capacitance:</b>  | 2.2 uF  |
| <b>Measurement Condition:</b>  | 1 kHz 1.0Vrms                                 |
| <b>Capacitance Tolerance:</b>  | 10%   |
| <b>Voltage DC:</b>   | 6.3 VDC                                       |
| <b>Dielectric Withstanding Voltage:</b>                                    | 15.75 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>   | 10% 1 kHz 1.0Vrms                             |
| <b>Aging Rate:</b>   | 3% Loss/Decade Hour: Referee Time is 48 Hours |
| <b>Insulation Resistance:</b>  | 45 MOhms                                      |