

**KEMET Part Number: C1812C224K1RACTU**  
(C1812C224K1RAC7800)

Ceramic, SMD Comm X7R, 0.22 uF, 10%, 100 V, 1812, X7R, SMD, MLCC, Temperature Stable, Class II



**Dimensions**

|          |                 |
|----------|-----------------|
| <b>L</b> | 4.5mm +/-0.3mm  |
| <b>W</b> | 3.2mm +/-0.3mm  |
| <b>T</b> | 1mm +/-0.10mm   |
| <b>B</b> | 0.6mm +/-0.35mm |

**Packaging Specifications**

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

**General Information**

|                       |  |
|-----------------------|--|
| <b>Style:</b>         | SMD Chip   |
| <b>Series:</b>        | SMD Comm X7R   |
| <b>Chip Size:</b>     | 1812   |
| <b>Description:</b>   | SMD, MLCC, Temperature Stable, Class II                                  |
| <b>Features:</b>      | Temperature Stable, Class II   |
| <b>RoHS:</b>          | Yes  |
| <b>Termination:</b>   | Tin  |
| <b>Marking:</b>       | No   |
| <b>Failure Rate:</b>  | N/A  |
| <b>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |

**Specifications**

|   |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 0.22 uF             |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 100 VDC             |
| <b>Dielectric Withstanding Voltage:</b> | 250 V               |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | X7R                 |
| <b>Dissipation Factor:</b>              | 2.5% 1kHz 25C       |
| <b>Aging Rate:</b>                      | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 4.545 GOhms         |