

**KEMET Part Number: C0805C222K1RACTU**  
(C0805C222K1RAC7800)

SMD Comm X7R, Ceramic, 2200 pF, 10%, 100 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0805



**Dimensions**

| Dimension | Value            |
|-----------|------------------|
| L         | 2mm +/-0.2mm     |
| W         | 1.25mm +/-0.2mm  |
| T         | 0.78mm +/-0.10mm |
| S         | 0.75mm MIN       |
| B         | 0.5mm +/-0.25mm  |

**Packaging Specifications**

|                            |                        |
|----------------------------|------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Paper Tape |
| <b>Packaging Quantity:</b> | 4000                   |

**General Information**

|                       |  |
|-----------------------|--|
| <b>Series:</b>        | SMD Comm X7R   |
| <b>Style:</b>         | SMD Chip   |
| <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>AEC-Q200:</b>      | No   |
| <b>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| <b>Chip Size:</b>     | 0805   |
| <b>Shelf Life:</b>    | 78 Weeks   |
| <b>MSL:</b>           | 1  |

**Specifications**

|  |                       |
|--|-----------------------|
| <b>Capacitance:</b>  | 2200 pF, 1kHz 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>   | 2.50% 1kHz 1.0Vrms    |
| <b>Aging Rate:</b>   | 3% Loss/Decade Hour   |
| <b>Insulation Resistance:</b>  | 100 GOhms             |

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