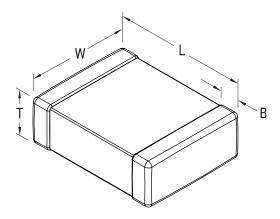
## KEMET Part Number: C1812C224K5RACTU

(C1812C224K5RAC7800)



SMD Comm X7R, Ceramic, 0.22 uF, 10%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 1812



| Dimensions |                 |  |
|------------|-----------------|--|
| Chip Size  | 1812            |  |
| L          | 4.5mm +/-0.3mm  |  |
| W          | 3.2mm +/-0.3mm  |  |
| Т          | 1mm +/-0.10mm   |  |
| В          | 0.6mm +/-0.35mm |  |

| Packaging Specifications |                          |  |
|--------------------------|--------------------------|--|
| Packaging:               | T&R, 180mm, Plastic Tape |  |
| Packaging Quantity:      | 1000                     |  |

| General Information |  |
|---------------------|--|
| Series:             | SMD Comm X7R   |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, Temperature<br>Stable, Class II                                     |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| AEC-Q200:           | No   |
| Miscellaneous:      | Note: Referee time for X7R<br>dielectric for this part number is<br>1000 hours |
| Shelf Life:         | 78 Weeks   |
| MSL:                | 1  |

| Specifications  |                     |  |
|---|---------------------|--|
| Capacitance:  | 0.22 uF             |  |
| Capacitance Tolerance:  | 10%                 |  |
| Voltage DC:   | 50 VDC              |  |
| Dielectric Withstanding<br>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:  | 4.545 GOhms         |  |

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