

**KEMET Part Number: C1812X224K1RACTU**  
(C1812X224K1RAC7800)

Capacitor, Ceramic, SMD, MLCC, FT-CAP, Temp Stable, 0.22 uF, +/-10% Tol, 100 V, X7R, 1812 (4532 metric)



| General Information      |                                |
|--------------------------|--------------------------------|
| Supplier:                | KEMET                          |
| Application:             | Standard Chip                  |
| Chip Size:               | 1812 (4532 metric)             |
| Temperature Coefficient: | X7R                            |
| Part Type Description:   | SMD, MLCC, FT-CAP, Temp Stable |
| Termination Type:        | Flexible Termination           |
| Marked:                  | No                             |
| RoHS:                    | Yes                            |

| Dimensions (mm) |           |           |
|-----------------|-----------|-----------|
| Symbol          | Dimension | Tolerance |
| L               | 4.5       | +/-0.4    |
| W               | 3.2       | +/-0.3    |
| T               | 1         | +/-0.10   |
| B               | 0.7       | +/-0.35   |

| Packaging Specifications |              |
|--------------------------|--------------|
| Package Kind:            | T&R          |
| Package Size:            | 7 in/180 mm  |
| Package Type:            | Plastic Tape |
| Package Quantity:        | 1000         |

| Specifications         |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Capacitance:           | 0.22 uF                                                                  |
| Voltage:               | 100 V                                                                    |
| Tolerance:             | +/-10%                                                                   |
| Temperature Range:     | -55/+125C                                                                |
| Dissipation Factor:    | 2.5%                                                                     |
| Failure Rate:          | N/A                                                                      |
| Aging Rate:            | 3% loss/decade hour                                                      |
| Insulation Resistance: | 4.55 GOhm                                                                |
| Dielectric Strength:   | 250 V                                                                    |
| Miscellaneous:         | Note: Referee time for X7R dielectric for this part number is 1000 hours |