

**KEMET Part Number: C0805C224K5NACTU**  
(C0805C224K5NAC7800)

Ceramic, 150C-(CxxxxC), 0.22 uF, 10%, 50 V, 0805, X8L, SMD, MLCC, High Temperature, Temperature Stable



| Dimensions |                  |
|------------|------------------|
| L          | 2mm +/-0.2mm     |
| W          | 1.25mm +/-0.2mm  |
| T          | 1.25mm +/-0.15mm |
| S          | 0.75mm MIN       |
| B          | 0.5mm +/-0.25mm  |

| Packaging Specifications |                          |
|--------------------------|--------------------------|
| Packaging:               | T&R, 180mm, Plastic Tape |
| Packaging Quantity:      | 2500                     |

| General Information |  |
|---------------------|--|
| Style:              | SMD Chip   |
| Series:             | 150C-(CxxxxC)  |
| Chip Size:          | 0805   |
| Description:        | SMD, MLCC, High Temperature, Temperature Stable                          |
| Features:           | High Temperature, Temperature Stable                                     |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| Failure Rate:       | N/A  |
| Miscellaneous:      | Note: Referee time for X8L dielectric for this part number is 1000 hours |

| Specifications                   |                     |
|----------------------------------|---------------------|
| Capacitance:                     | 0.22 uF             |
| Capacitance Tolerance:           | 10%                 |
| Voltage DC:                      | 50 VDC              |
| Dielectric Withstanding Voltage: | 125 V               |
| Temperature Range:               | -55/+150C           |
| Temperature Coefficient:         | X8L                 |
| Dissipation Factor:              | 2.5%                |
| Aging Rate:                      | 3% Loss/Decade Hour |
| Insulation Resistance:           | 2.273 GOhms         |