

**KEMET Part Number: C0805C221K2GACTU**  
(C0805C221K2GAC7800)



SMD Comm COG, Ceramic, 220 pF, 10%, 200 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0805



| General Information |  |
|---------------------|--|
| Series:             | SMD Comm COG                               |
| Style:              | SMD Chip                                   |
| Description:        | SMD, MLCC, Ultra-Stable, Low Loss, Class I |
| Features:           | Ultra-Stable, Low Loss, Class I            |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| AEC-Q200:           | No   |
| Shelf Life:         | 78 Weeks                                   |
| MSL:                | 1  |

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0805             |
| 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 |                        |
|--------------------------|------------------------|
| Packaging:               | T&R, 180mm, Paper Tape |
| Packaging Quantity:      | 4000                   |

| Specifications  |                           |
|---|---------------------------|
| Capacitance:  | 220 pF                    |
| Measurement Condition:  | 1 MHz 1.0Vrms             |
| Capacitance Tolerance:  | 10%                       |
| Voltage DC:   | 200 VDC                   |
| Dielectric Withstanding Voltage:                                    | 500 VDC                   |
| Temperature Range:  | -55/+125°C                |
| Temperature Coefficient:  | COG                       |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 30 ppm/C, 1MegaHz 1.0Vrms |
| Dissipation Factor:   | 0.1% 1 MHz 1.0Vrms        |
| Aging Rate:   | 0% Loss/Decade Hour       |
| Insulation Resistance:  | 100 GOhms                 |

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