

**KEMET Part Number: C1812C221KHGACTU**  
(C1812C221KHGAC7800)

SMD Comm COG HV, Ceramic, 220 pF, 10%, 3000 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 1812



**Dimensions**

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 1812            |
| L          | 4.5mm +/-0.3mm  |
| W          | 3.2mm +/-0.3mm  |
| T          | 2mm +/-0.20mm   |
| B          | 0.6mm +/-0.35mm |

**Packaging Specifications**

|                     |                          |
|---------------------|--------------------------|
| Packaging:          | T&R, 180mm, Plastic Tape |
| Packaging Quantity: | 500                      |

**General Information**

|                   |  |
|-------------------|--|
| Series:           | SMD Comm COG HV                            |
| 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   |
| Component Weight: | 87 mg                                      |
| Shelf Life:       | 78 Weeks                                   |
| MSL:              | 1  |

**Specifications**

|   |                        |
|---|------------------------|
| Capacitance:  | 220 pF                 |
| Measurement Condition:  | 1 MHz 1.0Vrms          |
| Capacitance Tolerance:  | 10%                    |
| Voltage DC:   | 3000 VDC               |
| Dielectric Withstanding Voltage:                                    | 3600 VDC               |
| Temperature Range:  | -55/+125°C             |
| Temperature Coefficient:  | COG                    |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 30 ppm/C, 1MHz 1.0Vrms |
| Dissipation Factor:   | 0.1% 1 MHz 1.0Vrms     |
| Aging Rate:   | 0% Loss/Decade Hour    |
| Insulation Resistance:  | 100 GOhms              |