

**KEMET Part Number: C0402C109B8GACTU**  
(C0402C109B8GAC7867)

SMD Comm COG, Ceramic, 1 pF, +/-0.1 pF, 10 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 0402



**Dimensions**

| Chip Size | 0402            |
|-----------|-----------------|
| L         | 1mm +/-0.05mm   |
| W         | 0.5mm +/-0.05mm |
| T         | 0.5mm +/-0.05mm |
| S         | 0.3mm MIN       |
| B         | 0.3mm +/-0.1mm  |

**Packaging Specifications**

|                            |                        |
|----------------------------|------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Paper Tape |
| <b>Packaging Quantity:</b> | 10000                  |

**General Information**

|                          |  |
|--------------------------|--|
| <b>Series:</b>           | SMD Comm COG                               |
| <b>Style:</b>            | SMD Chip                                   |
| <b>Description:</b>      | SMD, MLCC, Ultra-Stable, Low Loss, Class I |
| <b>Features:</b>         | Ultra-Stable, Low Loss, Class I            |
| <b>RoHS:</b>             | Yes  |
| <b>Termination:</b>      | Tin  |
| <b>Marking:</b>          | No   |
| <b>AEC-Q200:</b>         | No   |
| <b>Component Weight:</b> | 1060 ug                                    |
| <b>Shelf Life:</b>       | 78 Weeks                                   |
| <b>MSL:</b>              | 1  |

**Specifications**

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