

**KEMET Part Number: C1812C242KCGACTU**  
(C1812C242KCGAC7800)

SMD Comm COG HV, Ceramic, 2400 pF, 10%, 500 VDC, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I, 1812



| Dimensions |                 |
|------------|-----------------|
| <b>L</b>   | 4.5mm +/-0.3mm  |
| <b>W</b>   | 3.2mm +/-0.3mm  |
| <b>T</b>   | 1mm +/-0.10mm   |
| <b>B</b>   | 0.6mm +/-0.35mm |

| Packaging Specifications   |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 1000                     |

| General Information |  |
|---------------------|--|
| <b>Supplier:</b>    | KEMET                                      |
| <b>Series:</b>      | SMD Comm COG HV                            |
| <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>Chip Size:</b>   | 1812                                       |
| <b>Shelf Life:</b>  | 78 Weeks                                   |
| <b>MSL:</b>         | 1  |

| Specifications                          |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 2400 pF             |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 500 VDC             |
| <b>Dielectric Withstanding Voltage:</b> | 750 VDC             |
| <b>Temperature Range:</b>               | -55/+125°C          |
| <b>Temperature Coefficient:</b>         | COG                 |
| <b>Dissipation Factor:</b>              | 0.10% 1kHz 25C      |
| <b>Aging Rate:</b>                      | 0% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 100 GOhms           |