

**KEMET Part Number: C1206C102KGRACTU**  
(C1206C102KGRAC7800)

SMD Comm X7R HV, Ceramic, 1000 pF, 10%, 2000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 1206



**Dimensions**

|          |                 |
|----------|-----------------|
| <b>L</b> | 3.2mm +/-0.2mm  |
| <b>W</b> | 1.6mm +/-0.2mm  |
| <b>T</b> | 1.2mm +/-0.15mm |
| <b>B</b> | 0.5mm +/-0.25mm |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 2500                     |

**General Information**

|                       |  |
|-----------------------|--|
| <b>Supplier:</b>      | KEMET  |
| <b>Series:</b>        | SMD Comm X7R HV  |
| <b>Style:</b>         | SMD Chip   |
| <b>Description:</b>   | SMD, MLCC, High Voltage, Temperature Stable                              |
| <b>Features:</b>      | High Voltage   |
| <b>RoHS:</b>          | Yes  |
| <b>Termination:</b>   | Tin  |
| <b>Marking:</b>       | No   |
| <b>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| <b>Chip Size:</b>     | 1206   |

**Specifications**

|   |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 1000 pF             |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 2000 VDC            |
| <b>Dielectric Withstanding Voltage:</b> | 2,400 V             |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | X7R                 |
| <b>Dissipation Factor:</b>              | 2.50% 1kHz 25C      |
| <b>Aging Rate:</b>                      | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 100 GOhms           |