

**KEMET Part Number: C1206C102M5RACTU**  
(C1206C102M5RAC7800)

Ceramic, Commercial-(CxxxxC), 1000 pF, 20%, 50 V, 1206, X7R, SMD, MLCC, Temperature Stable, Class II



**Dimensions**

|          |                  |
|----------|------------------|
| <b>L</b> | 3.2mm +/-0.2mm   |
| <b>W</b> | 1.6mm +/-0.2mm   |
| <b>T</b> | 0.78mm +/-0.10mm |
| <b>B</b> | 0.5mm +/-0.25mm  |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 4000                     |

**General Information**

|                       |  |
|-----------------------|--|
| <b>Style:</b>         | SMD Chip   |
| <b>Series:</b>        | Commercial-(CxxxxC)  |
| <b>Chip Size:</b>     | 1206   |
| <b>Description:</b>   | SMD, MLCC, Temperature Stable, Class II                                  |
| <b>Features:</b>      | Temperature Stable, Class II   |
| <b>RoHS:</b>          | Yes  |
| <b>Termination:</b>   | Tin  |
| <b>Marking:</b>       | No   |
| <b>Failure Rate:</b>  | N/A  |
| <b>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |

**Specifications**

|   |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 1000 pF             |
| <b>Capacitance Tolerance:</b>           | 20%                 |
| <b>Voltage DC:</b>                      | 50 VDC              |
| <b>Dielectric Withstanding Voltage:</b> | 125 V               |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | X7R                 |
| <b>Dissipation Factor:</b>              | 2.5%                |
| <b>Aging Rate:</b>                      | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 100 GOhms           |