

**KEMET Part Number: C1206X105K5RACTU**  
(C1206X105K5RAC7800)

Ceramic, FlexTerm-(CxxxxX), 1 uF, 10%, 50 V, 1206, X7R, SMD, MLCC, FT-CAP, Temperature Stable



**Dimensions**

|          |                 |
|----------|-----------------|
| <b>L</b> | 3.3mm +/-0.4mm  |
| <b>W</b> | 1.6mm +/-0.35mm |
| <b>T</b> | 1mm +/-0.20mm   |
| <b>B</b> | 0.6mm +/-0.25mm |

**Packaging Specifications**

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

**General Information**

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Style:</b>         | SMD Chip                                                                 |
| <b>Series:</b>        | FlexTerm-(CxxxxX)                                                        |
| <b>Chip Size:</b>     | 1206                                                                     |
| <b>Description:</b>   | SMD, MLCC, FT-CAP, Temperature Stable                                    |
| <b>Features:</b>      | FT-CAP, Temperature Stable                                               |
| <b>RoHS:</b>          | Yes                                                                      |
| <b>Termination:</b>   | Flexible Termination                                                     |
| <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>             | 1 uF                |
| <b>Capacitance Tolerance:</b>   | 10%                 |
| <b>Voltage DC:</b>              | 50 VDC              |
| <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>   | 500 MOhms           |
| <b>Dielectric Strength:</b>     | 125 V               |