

**KEMET Part Number: C1206C823K1RACTU**  
(C1206C823K1RAC7800)

SMD Comm X7R, Ceramic, 0.082 uF, 10%, 100 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 1206



**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>Supplier:</b>      | KEMET                                                                    |
| <b>Series:</b>        | SMD Comm X7R                                                             |
| <b>Style:</b>         | SMD Chip                                                                 |
| <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>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| <b>Chip Size:</b>     | 1206                                                                     |
| <b>Shelf Life:</b>    | 78 Weeks                                                                 |
| <b>MSL:</b>           | 1                                                                        |

**Specifications**

|                                         |                     |
|-----------------------------------------|---------------------|
| <b>Capacitance:</b>                     | 0.082 uF            |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 100 VDC             |
| <b>Dielectric Withstanding Voltage:</b> | 250 VDC             |
| <b>Temperature Range:</b>               | -55/+125°C          |
| <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>           | 12.195 GOhms        |