

**KEMET Part Number: C1206C565K4RACTU**  
(C1206C565K4RAC7800)

Ceramic, SMD Comm X7R, 5.6 uF, 10%, 16 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> | 1.6mm +/-0.20mm |
| <b>B</b> | 0.5mm +/-0.25mm |

**Packaging Specifications**

|                            |                          |
|----------------------------|--------------------------|
| <b>Packaging:</b>          | T&R, 180mm, Plastic Tape |
| <b>Packaging Quantity:</b> | 2000                     |

**General Information**

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| <b>Style:</b>         | SMD Chip                                                                 |
| <b>Series:</b>        | SMD Comm X7R                                                             |
| <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>                     | 5.6 uF              |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 16 VDC              |
| <b>Dielectric Withstanding Voltage:</b> | 40 V                |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | X7R                 |
| <b>Dissipation Factor:</b>              | 3.5% 120Hz 25C      |
| <b>Aging Rate:</b>                      | 3% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 18 MOhms            |