

**KEMET Part Number: C0805C680KDRACTU**  
(C0805C680KDRAC7800)

SMD Comm X7R HV, Ceramic, 68 pF, 10%, 1000 VDC, X7R, SMD, MLCC, High Voltage, Temperature Stable, 0805



**Dimensions**

| Dimensions |                  |
|------------|------------------|
| <b>L</b>   | 2mm +/-0.2mm     |
| <b>W</b>   | 1.25mm +/-0.2mm  |
| <b>T</b>   | 1.25mm +/-0.15mm |
| <b>S</b>   | 0.75mm MIN       |
| <b>B</b>   | 0.5mm +/-0.25mm  |

**Packaging Specifications**

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

**General Information**

| 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>     | 0805   |

**Specifications**

| Specifications                          |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 68 pF               |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 1000 VDC            |
| <b>Dielectric Withstanding Voltage:</b> | 1,200 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           |