

**KEMET Part Number: C0805C821J5GACTU**  
(C0805C821J5GAC7800)

Ceramic, Commercial-(CxxxxC), 820 pF, 5%, 50 V, 0805, COG, SMD, MLCC, Ultra-Stable, Low Loss, Class I



| Dimensions |                  |
|------------|------------------|
| <b>L</b>   | 2mm +/-0.2mm     |
| <b>W</b>   | 1.25mm +/-0.2mm  |
| <b>T</b>   | 0.78mm +/-0.10mm |
| <b>S</b>   | 0.75mm MIN       |
| <b>B</b>   | 0.5mm +/-0.25mm  |

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

| General Information   |   |
|-----------------------|---|
| <b>Style:</b>         | SMD Chip  |
| <b>Series:</b>        | Commercial-(CxxxxC)                                     |
| <b>Chip Size:</b>     | 0805  |
| <b>Description:</b>   | SMD, MLCC, Ultra-Stable, Low Loss, Class I              |
| <b>Features:</b>      | Ultra-Stable, Low Loss, Class I                         |
| <b>RoHS:</b>          | Yes   |
| <b>Termination:</b>   | Tin   |
| <b>Marking:</b>       | No  |
| <b>Failure Rate:</b>  | N/A   |
| <b>Miscellaneous:</b> | Note: KEMET 50V rated parts may be operated at 63 Volts |

| Specifications                          |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 820 pF              |
| <b>Capacitance Tolerance:</b>           | 5%                  |
| <b>Voltage DC:</b>                      | 50 VDC              |
| <b>Dielectric Withstanding Voltage:</b> | 125 V               |
| <b>Temperature Range:</b>               | -55/+125C           |
| <b>Temperature Coefficient:</b>         | COG                 |
| <b>Dissipation Factor:</b>              | 0.1%                |
| <b>Aging Rate:</b>                      | 0% Loss/Decade Hour |
| <b>Insulation Resistance:</b>           | 100 GOhms           |