

**KEMET Part Number: C0603X102K5RACTU**  
(C0603X102K5RAC7867)

SMD Comm X7R Flex, Ceramic, 1000 pF, 10%, 50 VDC, X7R, SMD, MLCC, FT-CAP, Temperature Stable, 0603



| Dimensions |                  |
|------------|------------------|
| <b>L</b>   | 1.6mm +/-0.17mm  |
| <b>W</b>   | 0.8mm +/-0.15mm  |
| <b>T</b>   | 0.8mm +/-0.15mm  |
| <b>S</b>   | 0.58mm MIN       |
| <b>B</b>   | 0.45mm +/-0.15mm |

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

| General Information   |  |
|-----------------------|--|
| <b>Supplier:</b>      | KEMET  |
| <b>Series:</b>        | SMD Comm X7R Flex  |
| <b>Style:</b>         | SMD Chip   |
| <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>Miscellaneous:</b> | Note: Referee time for X7R dielectric for this part number is 1000 hours |
| <b>Chip Size:</b>     | 0603   |

| Specifications                          |                     |
|---|---------------------|
| <b>Capacitance:</b>                     | 1000 pF             |
| <b>Capacitance Tolerance:</b>           | 10%                 |
| <b>Voltage DC:</b>                      | 50 VDC              |
| <b>Dielectric Withstanding Voltage:</b> | 125 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           |