

**KEMET Part Number: C0603C102K5RACTU**  
(C0603C102K5RAC7867)

Ceramic, Commercial-(CxxxxC), 1000 pF, 10%, 50 V, 0603, X7R, SMD, MLCC, Temperature Stable, Class II



| Dimensions |                  |
|------------|------------------|
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.07mm  |
| S          | 0.7mm MIN        |
| B          | 0.35mm +/-0.15mm |

| Packaging Specifications |                        |
|--------------------------|------------------------|
| Packaging:               | T&R, 180mm, Paper Tape |
| Packaging Quantity:      | 4000                   |

| General Information |  |
|---------------------|--|
| Style:              | SMD Chip   |
| Series:             | Commercial-(CxxxxC)  |
| Chip Size:          | 0603   |
| Description:        | SMD, MLCC, Temperature Stable, Class II                                |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| Failure Rate:       | N/A  |
| Miscellaneous:      | Note: Referee time for X7R dielectric for this part number is 48 hours |

| Specifications           |                     |
|--------------------------|---------------------|
| Capacitance:             | 1000 pF             |
| Capacitance Tolerance:   | 10%                 |
| Voltage DC:              | 50 VDC              |
| Temperature Range:       | -55/+125C           |
| Temperature Coefficient: | X7R                 |
| Dissipation Factor:      | 2.5%                |
| Aging Rate:              | 3% Loss/Decade Hour |
| Insulation Resistance:   | 100 GOhms           |
| Dielectric Strength:     | 125 V               |