

**KEMET Part Number: C0603C105K8RACTU**  
(C0603C105K8RAC7867)

SMD Comm X7R, Ceramic, 1 uF, 10%, 10 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0603



| Dimensions |                  |
|------------|------------------|
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.10mm  |
| S          | 0.7mm MIN        |
| B          | 0.35mm +/-0.15mm |

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

| General Information |  |
|---------------------|--|
| Supplier:           | KEMET  |
| Series:             | SMD Comm X7R   |
| Style:              | SMD Chip   |
| Description:        | SMD, MLCC, Temperature Stable, Class II                                |
| Features:           | Temperature Stable, Class II   |
| RoHS:               | Yes  |
| Termination:        | Tin  |
| Marking:            | No   |
| Miscellaneous:      | Note: Referee time for X7R dielectric for this part number is 48 hours |
| Chip Size:          | 0603   |

| Specifications                   |                     |
|----------------------------------|---------------------|
| Capacitance:                     | 1 uF                |
| Capacitance Tolerance:           | 10%                 |
| Voltage DC:                      | 10 VDC              |
| Dielectric Withstanding Voltage: | 25 V                |
| Temperature Range:               | -55/+125C           |
| Temperature Coefficient:         | X7R                 |
| Dissipation Factor:              | 10.00% 1kHz 25C     |
| Aging Rate:                      | 3% Loss/Decade Hour |
| Insulation Resistance:           | 500 MOhms           |