

**KEMET Part Number: C0603C103M5RACTU**  
(C0603C103M5RAC7867)



SMD Comm X7R, Ceramic, 0.01 uF, 20%, 50 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0603



**Dimensions**

| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| 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**

|                   |                                         |
|-------------------|-----------------------------------------|
| 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                                      |
| AEC-Q200:         | No                                      |
| Component Weight: | 4800 ug                                 |
| Shelf Life:       | 78 Weeks                                |
| MSL:              | 1                                       |

**Specifications**

|                                                                     |                                               |
|---------------------------------------------------------------------|-----------------------------------------------|
| Capacitance:                                                        | 0.01 uF                                       |
| Measurement Condition:                                              | 1 kHz 1.0Vrms                                 |
| Capacitance Tolerance:                                              | 20%                                           |
| Voltage DC:                                                         | 50 VDC                                        |
| Dielectric Withstanding Voltage:                                    | 125 VDC                                       |
| Temperature Range:                                                  | -55/+125°C                                    |
| Temperature Coefficient:                                            | X7R                                           |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC): | 15%, 1kHz 1.0Vrms                             |
| Dissipation Factor:                                                 | 2.5% 1 kHz 1.0Vrms                            |
| Aging Rate:                                                         | 3% Loss/Decade Hour: Referee Time is 48 Hours |
| Insulation Resistance:                                              | 10 GOhms                                      |

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