

**KEMET Part Number: C0805C105J8RACTU**  
(C0805C105J8RAC7800)

SMD Comm X7R, Ceramic, 1 uF, 5%, 10 VDC, X7R, SMD, MLCC, Temperature Stable, Class II, 0805



**Dimensions**

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0805            |
| L          | 2mm +/-0.2mm    |
| W          | 1.25mm +/-0.2mm |
| T          | 0.9mm +/-0.10mm |
| S          | 0.75mm MIN      |
| B          | 0.5mm +/-0.25mm |

**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: | 13 mg                                   |
| Shelf Life:       | 78 Weeks                                |
| MSL:              | 1                                       |

**Specifications**

|   |   |
|---|---|
| Capacitance:  | 1 uF  |
| Measurement Condition:  | 1 kHz 1.0Vrms                                 |
| Capacitance Tolerance:  | 5%  |
| Voltage DC:   | 10 VDC  |
| Dielectric Withstanding Voltage:                                    | 25 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:   | 5% 1 kHz 1.0Vrms                              |
| Aging Rate:   | 3% Loss/Decade Hour: Referee Time is 48 Hours |
| Insulation Resistance:  | 500 MOhms                                     |