

KEMET Part Number: C0603S102K1RACTU
(C0603S102K1RAC7867)

SMD Comm X7R FE, Ceramic, 1000 pF, 10%, 100 VDC, X7R, SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable, 0603



Dimensions

| Chip Size | 0603 |
|-----------|------------------|
| 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

| | |
|---------------------|---|
| Series: | SMD Comm X7R FE |
| Style: | SMD Chip |
| Description: | SMD, MLCC, FE-CAP, Floating Electrode, Temperature Stable |
| Features: | FE-CAP, Floating Electrode, Temperature Stable |
| RoHS: | Yes |
| Termination: | Tin |
| Marking: | No |
| AEC-Q200: | No |
| Shelf Life: | 78 Weeks |
| MSL: | 1 |

Specifications

| | |
|--|---|
| Capacitance: | 1000 pF |
| Measurement Condition: | 1 kHz 1.0Vrms |
| Capacitance Tolerance: | 10% |
| Voltage DC: | 100 VDC |
| Dielectric Withstanding Voltage: | 250 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% 1kHz 1.0Vrms |
| Aging Rate: | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance: | 100 GOhms |