

C0603T102K1RACTU

Aliases (C0603T102K1RAC7867)

SMD COTS X7R, Ceramic, 1000 pF, 10%, 100 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0603



Click [here](#) for the 3D model.

| General Information | |
|--------------------------|---|
| Series | SMD COTS X7R |
| Style | SMD Chip |
| Description | SMD, MLCC, COTS, Temperature Stable, Class II |
| Features | Temperature Stable, Class II |
| RoHS | Yes |
| Termination | Tin |
| Marking | false |
| Failure Rate | Testing per MIL-PRF-55681 PDA 8% |
| AEC-Q200 | No |
| Typical Component Weight | 4.8 mg |
| 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 |

| Dimensions | |
|------------|------------------|
| Chip Size | 0603 |
| L | 1.6mm +/-0.15mm |
| W | 0.8mm +/-0.15mm |
| T | 0.8mm +/-0.07mm |
| S | 0.5mm MIN |
| B | 0.35mm +/-0.15mm |

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

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