

## C0603T102J5RBCTU

Aliases (C0603T102J5RBC7867)

SMD COTS X7R, Ceramic, 1000 pF, 5%, 50 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             | No  |
| Failure Rate        | Testing per MIL-PRF-55681 PDA 8%, DPA per EIA-469 |
| AEC-Q200            | No  |
| Component Weight    | 4.8 mg  |
| Shelf Life          | 78 Weeks  |
| MSL                 | 1   |

| 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 |

| Specifications   |   |
|--|---|
| Capacitance  | 1000 pF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Capacitance Tolerance  | 5%  |
| 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% 1kHz 1.0Vrms                               |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |

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

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