

# C0402T102K3RALTU

Aliases (C0402T102K3RAL7867)

SMD COTS X7R, Ceramic, 1,000 pF, 10%, 25 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0402 / 1005



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                     | No   |
| Prop 65                  | <b>WARNING:</b> Cancer and reproductive harm - <a href="https://www.p65warnings.ca.gov/">https://www.p65warnings.ca.gov/</a> |
| SCIP Number              | 2d771165-5336-48a3-96fa-3663929fd828   |
| Termination              | Lead (SnPb)  |
| Marking                  | No   |
| Failure Rate             | Testing per MIL-PRF-55681 PDA 8%   |
| Typical Component Weight | 1.21 mg  |
| Shelf Life               | 78 Weeks   |
| MSL                      | 1  |

| Dimensions           |                 |
|----------------------|-----------------|
| L                    | 1mm +/-0.05mm   |
| W                    | 0.5mm +/-0.05mm |
| T                    | 0.5mm +/-0.05mm |
| S                    | 0.3mm MIN       |
| B                    | 0.3mm +/-0.1mm  |
| Case Code (EIA / mm) | 0402 / 1005     |

| Packaging Specifications |                        |
|--------------------------|------------------------|
| Packaging                | T&R, 180mm, Paper Tape |
| Packaging Quantity       | 10000                  |

| Specifications   |   |
|--|---|
| Capacitance  | 1,000 pF  |
| Measurement Condition  | 1 kHz 1.0Vrms                                   |
| Tolerance  | 10%   |
| Voltage DC   | 25 VDC  |
| Dielectric Withstanding Voltage                                    | 62.5 VDC  |
| Temperature Range  | -55/+125°C                                      |
| Temp. Coefficient  | X7R   |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 15%, 1kHz 1.0Vrms                               |
| Dissipation Factor   | 3.5% 1 kHz 1.0Vrms                              |
| Aging Rate   | 3% Loss/Decade Hour: Referee Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms                                       |

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