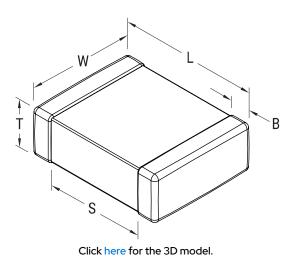


## C0603T102K8RALTU

Aliases (C0603T102K8RAL7867) SMD COTS X7R, Ceramic, 1,000 pF, 10%, 10 VDC, X7R, SMD, MLCC, COTS, Temperature Stable, Class II, 0603, 0.5 mm



| General Information      |  |
|--------------------------|--|
| Series                   | SMD COTS X7R   |
| Style                    | SMD Chip   |
| Description              | SMD, MLCC, COTS,<br>Temperature Stable, Class II                         |
| Features                 | Temperature Stable, Class II   |
| RoHS                     | No   |
| Prop 65                  | WARNING: Cancer and reproductive harm - https://www.p65warnings.ca.gov / |
| SCIP Number              | 2d771165-5336-48a3-96fa-366<br>3929fd828                                 |
| Termination              | Lead (SnPb)  |
| Marking                  | No   |
| Failure Rate             | Testing per MIL-PRF-55681 PDA<br>8%                                      |
| AEC-Q200                 | No   |
| Typical Component Weight | 4.8 mg   |
| Shelf Life               | 78 Weeks   |
| MSL                      | 1  |

| 0603             |
|------------------|
| 1.6mm +/-0.15mm  |
| 0.8mm +/-0.15mm  |
| 0.8mm +/-0.07mm  |
| 0.5mm MIN        |
| 0.35mm +/-0.15mm |
|                  |

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

| Specifications   |  |
|--|--|
| Capacitance  | 1,000 pF   |
| Measurement Condition  | 1 kHz 1.0Vrms                                      |
| Tolerance  | 10%  |
| Voltage DC   | 10 VDC   |
| Dielectric Withstanding Voltage  | 25 VDC   |
| Temperature Range  | -55/+125°C   |
| Temp. Coefficient  | X7R  |
| Capacitance Change with<br>Reference to +25°C and 0 VDC<br>Applied (TCC) | 15%, 1kHz 1.0Vrms                                  |
| Dissipation Factor   | 5% 1 kHz 1.0Vrms                                   |
| Aging Rate   | 3% Loss/Decade Hour: Referee<br>Time is 1000 Hours |
| Insulation Resistance  | 100 GOhms  |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

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