

## C0402T102G1GCLTU

Aliases (C0402T102G1GCL7867)

SMD COTS COG, Ceramic, 1000 pF, 2%, 100 VDC, COG, SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I, 0402



Click here for the 3D model.

| Dimensions |                 |
|------------|-----------------|
| Chip Size  | 0402            |
| L          | 1mm +/-0.05mm   |
| W          | 0.5mm +/-0.05mm |
| Т          | 0.5mm +/-0.05mm |
| S          | 0.3mm MIN       |
| В          | 0.3mm +/-0.1mm  |

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

| General Information | on  |
|---------------------|---|
| Series              | SMD COTS COG  |
| Style               | SMD Chip  |
| Description         | SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I  |
| Features            | Ultra-Stable, Low Loss, Class I   |
| RoHS                | No  |
| Prop 65             | ▲ WARNING: Cancer and reproductive harm - http://www.p65warnings.ca.gov.                                    |
| SCIP Number         | 2d771165-5336-48a3-96fa-3663929fd828  |
| Termination         | Lead (SnPb)   |
| Marking             | No  |
| Failure Rate        | Testing per MIL-PRF-55681 PDA 8%, DPA per EIA-<br>469, Humidity per MIL-STD-202, Method 103,<br>Condition A |
| AEC-Q200            | No  |
| Component<br>Weight | 1.06 mg   |
| Shelf Life          | 78 Weeks  |
| MSL                 | 1   |

| Specifications   |                              |
|--|------------------------------|
| Capacitance  | 1000 pF                      |
| Measurement Condition  | 1MHz 1.0Vrms                 |
| Capacitance Tolerance  | 2%                           |
| Voltage DC   | 100 VDC                      |
| Dielectric Withstanding Voltage                                    | 250 VDC                      |
| Temperature Range  | -55/+125°C                   |
| Temperature Coefficient  | COG                          |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1MegaHz<br>1.0Vrms |
| Dissipation Factor   | 0.1% 1 MHz 1.0Vrms           |
| Aging Rate   | 0% Loss/Decade<br>Hour       |
| Insulation Resistance  | 100 GOhms                    |

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