

## C0402T470F5GCLTU

## Aliases (C0402T470F5GCL7867)

SMD COTS COG, Ceramic, 47 pF, 1%, 50 VDC, COG, SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I, 0402



Click here for the 3D model.

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

## **Packaging Specifications**

Packaging Packaging Quantity

T&R, 180mm, Paper Tape 10000

| General Informat    | tion                                                                                                        |  |  |
|---------------------|-------------------------------------------------------------------------------------------------------------|--|--|
| 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             | A WARNING: Cancer and reproductive harm -<br>http://www.p65warnings.ca.gov.                                 |  |  |
| 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                                                           | 47 pF                        |
| Measurement Condition                                                 | 1 MHz 1.0Vrms                |
| Capacitance Tolerance                                                 | 1%                           |
| Voltage DC                                                            | 50 VDC                       |
| Dielectric Withstanding Voltage                                       | 125 VDC                      |
| Temperature Range                                                     | -55/+125°C                   |
| Temperature Coefficient                                               | COG                          |
| Capacitance Change with Reference to<br>+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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