

C0402T689D5GACTU

Aliases (C0402T689D5GAC7867)

SMD COTS COG, Ceramic, 6.8 pF, +/-0.5 pF, 50 VDC, COG, SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I, 0.3 mm, 0402 / 1005



Click [here](#) for the 3D model.

General Information

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|--------------------------|--|
| 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 | Yes |
| Termination | Tin |
| Marking | No |
| Failure Rate | Testing per MIL-PRF-55681 PDA 8% |
| Typical Component Weight | 1.06 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

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

Specifications

| | |
|--|------------------------|
| Capacitance | 6.8 pF |
| Measurement Condition | 1 MHz 1.0Vrms |
| Tolerance | +/-0.5 pF |
| Voltage DC | 50 VDC |
| Dielectric Withstanding Voltage | 125 VDC |
| Temperature Range | -55/+125°C |
| Temp. Coefficient | COG |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1MHz 1.0Vrms |
| Dissipation Factor | 0.1% 1 MHz 1.0Vrms |
| Aging Rate | 0% Loss/Decade Hour |
| Insulation Resistance | 100 GOhms |

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