

**KEMET Part Number: C0603T470F2GCLTU**  
(C0603T470F2GCL7867)

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SMD COTS COG, Ceramic, 47 pF, 1%, 200 VDC, COG, SMD, MLCC, COTS, Ultra-Stable, Low Loss, Class I, 0603



| Dimensions |                  |
|------------|------------------|
| Chip Size  | 0603             |
| L          | 1.6mm +/-0.15mm  |
| W          | 0.8mm +/-0.15mm  |
| T          | 0.8mm +/-0.07mm  |
| S          | 0.7mm MIN        |
| B          | 0.35mm +/-0.15mm |

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

| General Information |   |
|---------------------|---|
| 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:            | <b>WARNING:</b> Cancer and reproductive harm - <a href="http://www.p65warnings.ca.gov">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%, DPA per EIA-469, Humidity per MIL-STD-202, Method 103, Condition A              |
| AEC-Q200:           | No  |
| Component Weight:   | 3700 ug   |
| Shelf Life:         | 78 Weeks  |
| MSL:                | 1   |

| Specifications  |                           |
|---|---------------------------|
| Capacitance:  | 47 pF                     |
| Measurement Condition:  | 1 MHz 1.0Vrms             |
| Capacitance Tolerance:  | 1%                        |
| Voltage DC:   | 200 VDC                   |
| Dielectric Withstanding Voltage:                                    | 500 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 1.0Vrms |
| Dissipation Factor:   | 0.1% 1 MHz 1.0Vrms        |
| Aging Rate:   | 0% Loss/Decade Hour       |
| Insulation Resistance:  | 100 GOhms                 |

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