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**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                     | Yes  |
| Termination              | Tin  |
| Marking                  | No   |
| Failure Rate             | Testing per MIL-PRF-55681 PDA 8%                 |
| AEC-Q200                 | No   |
| Typical Component Weight | 1.06 mg  |
| Shelf Life               | 78 Weeks   |
| MSL                      | 1  |

**Specifications**

|  |                        |
|--|------------------------|
| Capacitance  | 43 pF                  |
| Measurement Condition  | 1 MHz 1.0Vrms          |
| Tolerance  | 2%                     |
| 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              |

**Dimensions**

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

**Packaging Specifications**

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

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