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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%                 |
| Typical Component Weight | 3.7 mg   |
| Shelf Life               | 78 Weeks   |
| MSL                      | 1  |

**Dimensions**

|                      |                  |
|----------------------|------------------|
| L                    | 1.6mm +/-0.15mm  |
| W                    | 0.8mm +/-0.15mm  |
| T                    | 0.8mm +/-0.07mm  |
| S                    | 0.5mm MIN        |
| B                    | 0.35mm +/-0.15mm |
| Case Code (EIA / mm) | 0603 / 1608      |

**Packaging Specifications**

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

**Specifications**

|  |                        |
|--|------------------------|
| Capacitance  | 33 pF                  |
| Measurement Condition  | 1 MHz 1.0Vrms          |
| Tolerance  | 5%                     |
| 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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