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#### General Information

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Series                   | SMD Auto COG Flex                                 |
| Style                    | SMD Chip                                          |
| Description              | SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade |
| Features                 | FT-CAP, Ultra-Stable, Automotive Grade            |
| RoHS                     | Yes                                               |
| Termination              | Flexible Termination                              |
| Marking                  | No                                                |
| Qualifications           | AEC-Q200                                          |
| Typical Component Weight | 4.6 mg                                            |
| Shelf Life               | 78 Weeks                                          |
| MSL                      | 1                                                 |

#### Dimensions

|                      |                  |
|----------------------|------------------|
| L                    | 1.6mm +/-0.17mm  |
| W                    | 0.8mm +/-0.15mm  |
| T                    | 0.8mm +/-0.15mm  |
| S                    | 0.4mm MIN        |
| B                    | 0.45mm +/-0.15mm |
| Case Code (EIA / mm) | 0603 / 1608      |

#### Packaging Specifications

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

#### Specifications

|                                                                    |                        |
|--------------------------------------------------------------------|------------------------|
| Capacitance                                                        | 5.6 pF                 |
| Measurement Condition                                              | 1 MHz 1.0Vrms          |
| Tolerance                                                          | +/-0.25 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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