

## C0603X689C5GACAUTO

SMD Auto COG Flex, Ceramic, 6.8 pF,  $\pm 0.25$  pF, 50 VDC, COG, SMD, MLCC, FT-CAP, Ultra-Stable, Automotive Grade, 0603, 0.4 mm



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

### 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  |
| AEC-Q200                 | Yes   |
| Typical Component Weight | 4.6 mg  |
| Shelf Life               | 78 Weeks  |
| MSL                      | 1   |

### Specifications

|  |                        |
|--|------------------------|
| Capacitance  | 6.8 pF                 |
| Measurement Condition  | 1 MHz 1.0Vrms          |
| Tolerance  | $\pm 0.25$ 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              |

### Dimensions

|           |                      |
|-----------|----------------------|
| Chip Size | 0603                 |
| L         | 1.6mm $\pm 0.17$ mm  |
| W         | 0.8mm $\pm 0.15$ mm  |
| T         | 0.8mm $\pm 0.15$ mm  |
| S         | 0.4mm MIN            |
| B         | 0.45mm $\pm 0.15$ mm |

### Packaging Specifications

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

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