



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

### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 0402            |
| L         | 1mm +/-0.05mm   |
| W         | 0.5mm +/-0.05mm |
| T         | 0.5mm +/-0.05mm |
| B         | 0.25mm +/-0.1mm |

### Packaging Specifications

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

### General Information

|                          |  |
|--------------------------|--|
| Series                   | CBR-SMD RF Auto COG                            |
| Style                    | SMD Chip                                       |
| Description              | SMD, Fixed, RF, Ultra High Q, Low ESR, Class I |
| Features                 | Ultra High Q, Low ESR, Class I                 |
| RoHS                     | Yes  |
| Termination              | Tin  |
| Marking                  | No   |
| Qualifications           | AEC-Q200                                       |
| AEC-Q200                 | Yes  |
| Halogen Free             | Yes  |
| Typical Component Weight | 1.37 mg  |
| Notes                    | Solder Wave or Solder Reflow.                  |
| Shelf Life               | 78 Weeks                                       |
| MSL                      | 1  |

### Specifications

|  |                           |
|--|---------------------------|
| Capacitance  | 51 pF                     |
| Capacitance Tolerance  | 5%                        |
| Voltage DC   | 50 VDC                    |
| Dielectric Withstanding Voltage                                    | 125 VDC                   |
| Temperature Range  | -55/+125°C                |
| Temperature Coefficient  | COG                       |
| Capacitance Change with Reference to +25°C and 0 VDC Applied (TCC) | 30 ppm/C, 1MHz<br>1.0Vrms |
| Dissipation Factor   | 0.1% 1 MHz 1.0Vrms        |
| Aging Rate   | 0% Loss/Decade<br>Hour    |
| Insulation Resistance  | 10 GOhms                  |
| Quality Factor   | 1000                      |

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