



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

**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                                       |
| Halogen Free             | Yes  |
| Typical Component Weight | 1.37 mg  |
| Notes                    | Solder Wave or Solder Reflow.                  |
| Shelf Life               | 78 Weeks                                       |
| MSL                      | 1  |

**Dimensions**

|                      |                 |
|----------------------|-----------------|
| L                    | 1mm +/-0.05mm   |
| W                    | 0.5mm +/-0.05mm |
| T                    | 0.5mm +/-0.05mm |
| B                    | 0.25mm +/-0.1mm |
| Case Code (EIA / mm) | 0402 / 1005     |

**Packaging Specifications**

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

**Specifications**

|  |                        |
|--|------------------------|
| Capacitance  | 1 pF                   |
| Tolerance  | +/-0.1 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   | 0.24% 1 MHz 1.0Vrms    |
| Aging Rate   | 0% Loss/Decade Hour    |
| Insulation Resistance  | 10 GOhms               |
| Quality Factor   | 420                    |

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