



## Ferrite Chip Inductor(Lead Free)

GCI1005F-Series

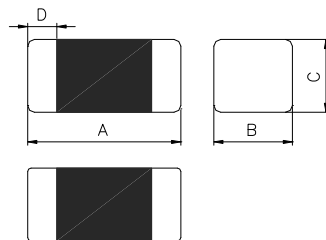
### 1. Features

1. Monolithic inorganic material construction.
2. Closed magnetic circuit avoids crosstalk.
3. S.M.T. type.
4. Suitable for reflow soldering.
5. Shapes and dimensions follow E.I.A. spec.
6. Available in various sizes.
7. Excellent solder ability and heat resistance.
8. High reliability.
9. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
10. Operating Temperature:-55~+105°C (Including self-temperature rise)



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### 2. Dimensions



| Chip Size |           |
|-----------|-----------|
| A         | 1.00±0.10 |
| B         | 0.50±0.10 |
| C         | 0.50±0.10 |
| D         | 0.25±0.10 |

Units: mm

### 3. Part Numbering

GCI
1005
F
-
1R0
K

A: Series  
 B: Dimension L x W  
 C: Material Lead Free Material  
 D: Inductance 1R0=1.0 uH  
 E: Inductance Tolerance K=±10%, L=±15%, M=±20%

### 4. Specification

| Part Number   | Inductance(uH) |                        | Q    |                         | Rated Current<br>(mA) max. | DCR<br>(Ω) max. | SRF<br>(MHz) min. |
|---------------|----------------|------------------------|------|-------------------------|----------------------------|-----------------|-------------------|
|               | Tolerance      | Test Frequency<br>(Hz) | min. | Test Frequency<br>(MHz) |                            |                 |                   |
| GCI1005F-1R0□ | 1.00           | 60mV / 10M             | 20   | 10                      | 15                         | 0.90            | 40                |
| GCI1005F-1R8□ | 1.80           | 60mV / 10M             | 20   | 10                      | 15                         | 1.45            | 30                |
| GCI1005F-2R2□ | 2.20           | 60mV / 10M             | 20   | 10                      | 10                         | 1.70            | 28                |

NOTE: □: TOLERANCE K=±10%, L=±15%, M=±20%

- Rated current: based on temperature rise test
- In compliance with EIA 595

### Q vs Frequency, DC Bias Characteristics(Typical)

