



Ferrite Chip Inductor(Lead Free)

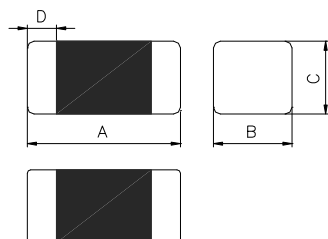
GCI2012F-Series

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)



2. Dimensions



Chip Size		
A	2.00±0.20	
B	1.25±0.20	
C	0.85±0.20	1.25±0.20
D	0.50±0.30	

Units: mm

3. Part Numbering

GCI **2012** **F** - **1R0** **K**
 A B C D E

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

4. Specification

Part Number	Thickness C size(mm)	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
GCI2012F-47N□	0.85±0.20	0.047	60mV / 50M	15	50	300	0.20	320
GC2012F-R10□	0.85±0.20	0.10	60mV / 25M	20	25	250	0.30	235
GCI2012F-R12□	0.85±0.20	0.12	60mV / 25M	20	25	250	0.30	220
GCI2012F-R15□	0.85±0.20	0.15	60mV / 25M	20	25	250	0.40	200
GCI2012F-R18□	0.85±0.20	0.18	60mV / 25M	20	25	250	0.40	185
GCI2012F-R22□	0.85±0.20	0.22	60mV / 25M	20	25	250	0.50	170
GCI2012F-R27□	0.85±0.20	0.27	60mV / 25M	20	25	250	0.50	150
GCI2012F-R33□	0.85±0.20	0.33	60mV / 25M	20	25	250	0.55	145
GCI2012F-R39□	0.85±0.20	0.39	60mV / 25M	25	25	200	0.65	135
GCI2012F-R47□	1.25±0.20	0.47	60mV / 25M	25	25	200	0.65	125
GCI2012F-R56□	1.25±0.20	0.56	60mV / 25M	25	25	150	0.75	115
GCI2012F-R68□	1.25±0.20	0.68	60mV / 25M	25	25	150	0.80	105

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



Part Number	Thickness C size(mm)	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
GCI2012F-1R0□	0.85±0.20	1.0	60mV / 10M	45	10	50	0.40	75
GCI2012F-1R5□	0.85±0.20	1.5	60mV / 10M	45	10	50	0.50	60
GCI2012F-1R8□	0.85±0.20	1.8	60mV / 10M	45	10	50	0.60	55
GCI2012F-2R2□	0.85±0.20	2.2	60mV / 10M	45	10	30	0.65	50
GCI2012F-2R7□	1.25±0.20	2.7	60mV / 10M	45	10	30	0.75	45
GCI2012F-3R3□	1.25±0.20	3.3	60mV / 10M	45	10	30	0.80	41
GCI2012F-4R7□	1.25±0.20	4.7	60mV / 10M	45	10	30	1.00	35
GCI2012F-100□	1.25±0.20	10.0	60mV / 2M	45	2	15	1.15	24

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)

