



Ferrite Chip Inductor(Lead Free)

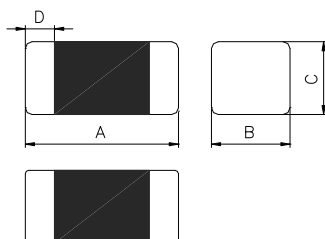
GCI1608F-Series

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℃(Including self-temperature



2. Dimensions



Chip Size		
A	1.60±0.15	1.80±0.15
B	0.80±0.15	
C	0.80±0.15	
D	0.30±0.20	

Units: mm

3. Part Numbering



A: Series
 B: Dimension
 C: Material
 D: Inductance
 E: Inductance Tolerance

L x W
 Lead Free Material
 1R8=1.8uH
 K=±10%,L=±15%,M=±20%

4.Specification

Part Number	Thickness A size(mm)	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
GCI1608F-47N□	1.60±0.15	0.047	60mV / 50M	10	50	50	0.30	260
GCI1608F-68N□	1.60±0.15	0.068	60mV / 50M	10	50	50	0.30	250
GCI1608F-82N□	1.60±0.15	0.082	60mV / 50M	10	50	50	0.30	245
GCI1608F-R10□	1.60±0.15	0.10	60mV / 25M	15	25	50	0.50	240
GCI1608F-R12□	1.60±0.15	0.12	60mV / 25M	15	25	50	0.50	205
GCI1608F-R15□	1.60±0.15	0.15	60mV / 25M	15	25	50	0.60	180
GCI1608F-R18□	1.60±0.15	0.18	60mV / 25M	15	25	50	0.60	165
GCI1608F-R22□	1.60±0.15	0.22	60mV / 25M	15	25	50	0.80	150
GCI1608F-R27□	1.60±0.15	0.27	60mV / 25M	15	25	50	0.80	136
GCI1608F-R33□	1.60±0.15	0.33	60mV / 25M	15	25	35	0.85	125
GCI1608F-R39□	1.60±0.15	0.39	60mV / 25M	15	25	35	1.00	110
GCI1608F-R47□	1.60±0.15	0.47	60mV / 25M	15	25	35	1.35	105
GCI1608F-R56□	1.60±0.15	0.56	60mV / 25M	15	25	35	1.55	95
GCI1608F-R68□	1.60±0.15	0.68	60mV / 25M	15	25	35	1.70	80
GCI1608F-R82□	1.60±0.15	0.82	60mV / 25M	15	25	35	2.10	75

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



Part Number	A size(mm)	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
GCI1608F-1R0□	1.60±0.15	1.0	60mV / 10M	30	10	25	0.60	70
GCI1608F-1R5□	1.60±0.15	1.5	60mV / 10M	30	10	25	0.80	55
GCI1608F-1R8□	1.60±0.15	1.8	60mV / 10M	30	10	25	0.95	50
GCI1608F-2R2□	1.60±0.15	2.2	60mV / 10M	30	10	15	1.15	45
GCI1608F-3R3□	1.60±0.15	3.3	60mV / 10M	30	10	15	1.55	38
GCI1608F-4R7□	1.60±0.15	4.7	60mV / 10M	30	10	15	2.10	33
GCI1608TF-100□	1.80±0.15	10	60mV / 2M	30	2	15	2.55	17

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)

