

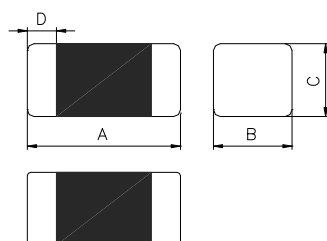
## 1. Features

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)



Certificate  
of  
Green Partner

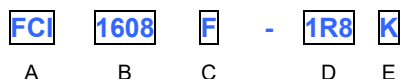
## 2. Dimensions



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 L x W  
 C: Material Lead Free Material  
 D: Inductance 1R8=1.8uH  
 E: Inductance Tolerance K=±10%,L=±15%,M=±20%

## 4. Specification

Tai-Tech Part Number	Thickness A size(mm)	Inductance		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		uH	Test Frequency (Hz)	min.	Test Frequency (MHz)			
FCI1608F-47N□	1.60±0.15	0.047	60mV / 50M	10	50	50	0.30	260
FCI1608F-68N□	1.60±0.15	0.068	60mV / 50M	10	50	50	0.30	250
FCI1608F-82N□	1.60±0.15	0.082	60mV / 50M	10	50	50	0.30	245
FCI1608F-R10□	1.60±0.15	0.10	60mV / 25M	15	25	50	0.50	240
FCI1608F-R12□	1.60±0.15	0.12	60mV / 25M	15	25	50	0.50	205
FCI1608F-R15□	1.60±0.15	0.15	60mV / 25M	15	25	50	0.60	180
FCI1608F-R18□	1.60±0.15	0.18	60mV / 25M	15	25	50	0.60	165
FCI1608F-R22□	1.60±0.15	0.22	60mV / 25M	15	25	50	0.80	150
FCI1608F-R27□	1.60±0.15	0.27	60mV / 25M	15	25	50	0.80	136
FCI1608F-R33□	1.60±0.15	0.33	60mV / 25M	15	25	35	0.85	125
FCI1608F-R39□	1.60±0.15	0.39	60mV / 25M	15	25	35	1.00	110
FCI1608F-R47□	1.60±0.15	0.47	60mV / 25M	15	25	35	1.35	105
FCI1608F-R56□	1.60±0.15	0.56	60mV / 25M	15	25	35	1.55	95
FCI1608F-R68□	1.60±0.15	0.68	60mV / 25M	15	25	35	1.70	80
FCI1608F-R82□	1.60±0.15	0.82	60mV / 25M	15	25	35	2.10	75

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

## TAI-TECH

Tai-Tech Part Number	Thickness A size(mm)	Inductance		Q		Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
		uH	Test Frequency (Hz)	min.	Test Frequency (MHz)			
FCI1608F-1R0□	1.60±0.15	1.00	60mV / 10M	30	10	25	0.60	70
FCI1608F-1R5□	1.60±0.15	1.50	60mV / 10M	30	10	25	0.80	55
FCI1608F-1R8□	1.60±0.15	1.80	60mV / 10M	30	10	25	0.95	50
FCI1608F-2R2□	1.60±0.15	2.20	60mV / 10M	30	10	15	1.15	45
FCI1608F-3R3□	1.60±0.15	3.30	60mV / 10M	30	10	15	1.55	38
FCI1608F-4R7□	1.60±0.15	4.70	60mV / 10M	30	10	15	2.10	33
FCI1608TF-100□	1.80±0.15	10.0	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)**

