Ferrite Chip Inductor(Lead Free)

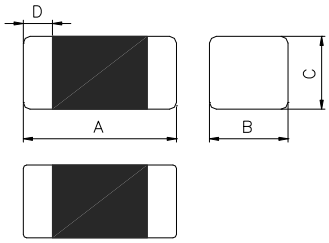
FCI1005F-Series

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.

Halogen-free Pb-free Certificate of Green Partner

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

FCI	1005	F	-	1R0	K
A	B	C		D	E

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%

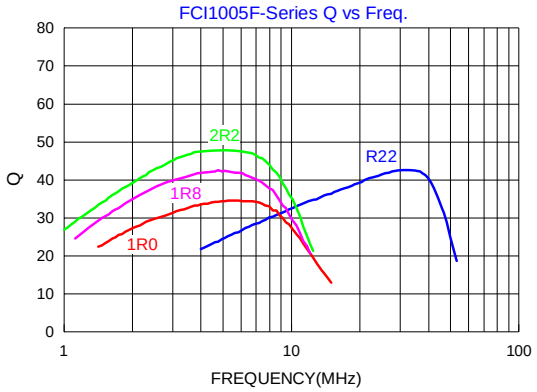
4.Specification

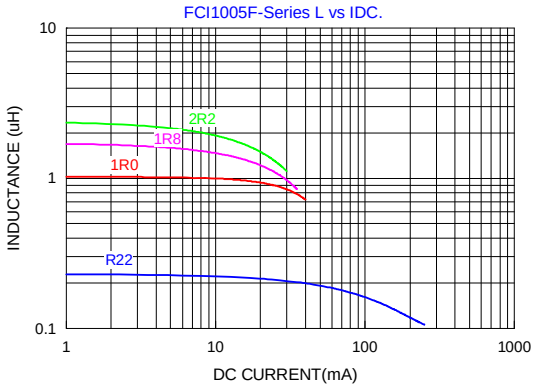
Tai-Tech Part Number	Inductance(uH)		Q		Rated Current	DCR	SRF
	Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)	(mA) max.	(Ω) max.	(MHz) min.
FCI1005F-R22□	0.22	60mV / 25M	10	25	25	1.20	110
FCI1005F-1R0□	1.0	60mV / 10M	20	10	15	0.90	40
FCI1005F-1R8□	1.8	60mV / 10M	20	10	15	1.45	30
FCI1005F-2R2□	2.2	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)





Ferrite Chip Inductor(Lead Free)

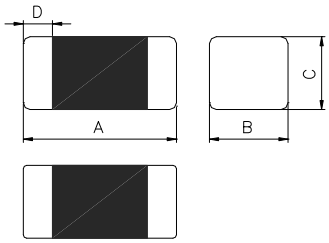
FCI1608F-Series

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.

Halogen-free Pb-free Certificate of Green Partner

2. Dimensions



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

Units: mm

3. Part Numbering

FCI	1608	F	-	1R8	K
A	B	C		D	E

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

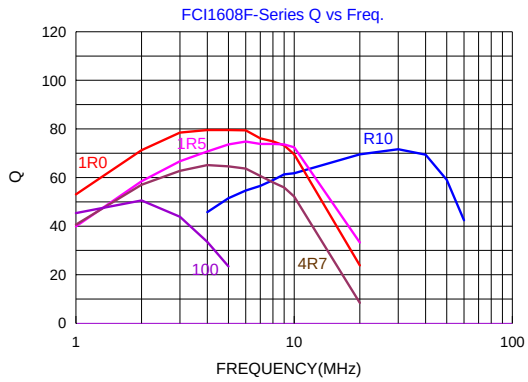
NOTE: □:TOLERANCE K=±10%,L=±15%,M=±20%

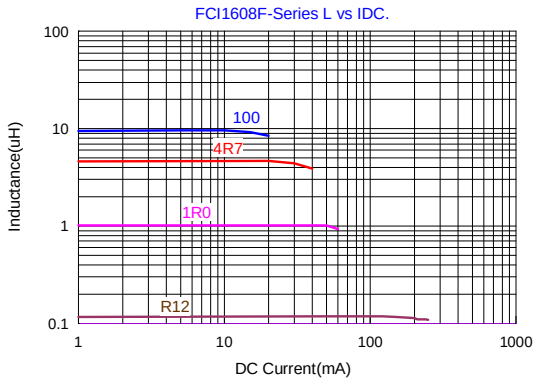
Tai-Tech Part Number	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
	Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
FCI1608F-1R0□	1.0	60mV / 10M	30	10	25	0.60	70
FCI1608F-1R5□	1.5	60mV / 10M	30	10	25	0.80	55
FCI1608F-1R8□	1.8	60mV / 10M	30	10	25	0.95	50
FCI1608F-2R2□	2.2	60mV / 10M	30	10	15	1.15	45
FCI1608F-3R3□	3.3	60mV / 10M	30	10	15	1.55	38
FCI1608F-4R7□	4.7	60mV / 10M	30	10	15	2.10	33
FCI1608F-100□	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)





Ferrite Chip Inductor(Lead Free)

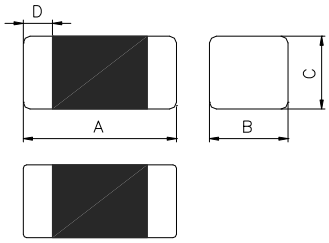
FCI2012F-Series

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.

Halogen-free Pb-free Certificate of Green Partner

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

FCI	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

Tai-Tech Part Number	Thickness C size(mm)	Inductance(uH) Tolerance	Inductance(uH) Test Frequency (Hz)	Q min.	Q Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
FCI2012F-47N□	0.85±0.20	0.047	60mV / 50M	15	50	300	0.20	320
FCI2012F-68N□	0.85±0.20	0.068	60mV / 50M	15	50	300	0.20	280
FCI2012F-82N□	0.85±0.20	0.082	60mV / 50M	15	50	300	0.20	255
FCI2012F-R10□	0.85±0.20	0.10	60mV / 25M	20	25	250	0.30	235
FCI2012F-R12□	0.85±0.20	0.12	60mV / 25M	20	25	250	0.30	220
FCI2012F-R15□	0.85±0.20	0.15	60mV / 25M	20	25	250	0.40	200
FCI2012F-R18□	0.85±0.20	0.18	60mV / 25M	20	25	250	0.40	185
FCI2012F-R22□	0.85±0.20	0.22	60mV / 25M	20	25	250	0.50	170
FCI2012F-R27□	0.85±0.20	0.27	60mV / 25M	20	25	250	0.50	150
FCI2012F-R33□	0.85±0.20	0.33	60mV / 25M	20	25	250	0.55	145
FCI2012F-R39□	0.85±0.20	0.39	60mV / 25M	25	25	200	0.65	135
FCI2012F-R47□	1.25±0.20	0.47	60mV / 25M	25	25	200	0.65	125
FCI2012F-R56□	1.25±0.20	0.56	60mV / 25M	25	25	150	0.75	115
FCI2012F-R68□	1.25±0.20	0.68	60mV / 25M	25	25	150	0.80	105

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

Tai-Tech 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)			
FCI2012F-1R0□	0.85±0.20	1.0	60mV / 10M	45	10	50	0.40	75
FCI2012F-1R5□	0.85±0.20	1.5	60mV / 10M	45	10	50	0.50	60
FCI2012F-1R8□	0.85±0.20	1.8	60mV / 10M	45	10	50	0.60	55
FCI2012F-2R2□	0.85±0.20	2.2	60mV / 10M	45	10	30	0.65	50
FCI2012F-2R7□	1.25±0.20	2.7	60mV / 10M	45	10	30	0.75	45
FCI2012F-3R3□	1.25±0.20	3.3	60mV / 10M	45	10	30	0.80	41
FCI2012F-4R7□	1.25±0.20	4.7	60mV / 10M	45	10	30	1.00	35
FCI2012F-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)