

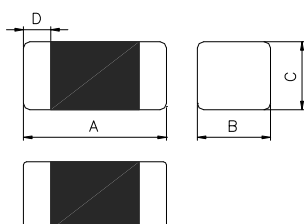
## Features

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. Reliability test meet AEC-Q200.
9. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



Certificate  
of  
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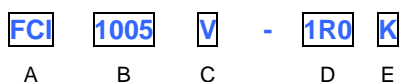
## Dimensions



Chip Size	
<b>A</b>	1.00±0.10
<b>B</b>	0.50±0.10
<b>C</b>	0.50±0.10
<b>D</b>	0.25±0.10

Units: mm

## Part Numbering



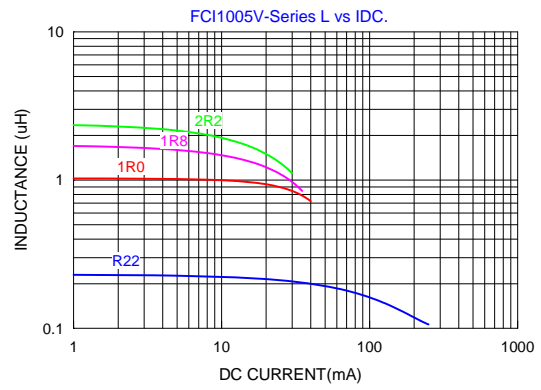
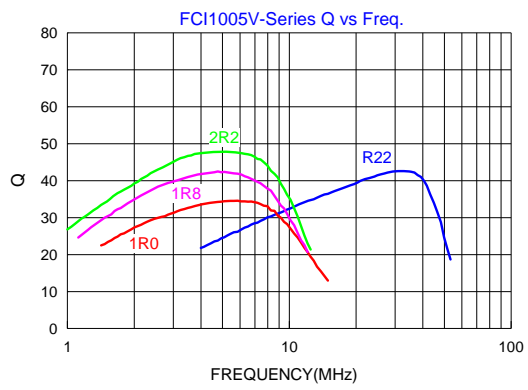
- A: Series  
 B: Dimension L x W  
 C: Category Code V=Vehicle  
 D: Inductance 1R0=1.0uH  
 E: Inductance Tolerance K=±10%, L=±15%, M=±20%

## Specification

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)			
FCI1005V-R22□	0.22	60mV / 25M	10	25	25	1.20	110
FCI1005V-1R0□	1.0	60mV / 10M	20	10	15	0.90	40
FCI1005V-1R8□	1.8	60mV / 10M	20	10	15	1.45	30
FCI1005V-2R2□	2.2	60mV / 10M	20	10	10	1.70	28

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

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



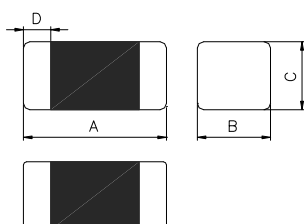
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## Dimensions



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

Units: mm

## Part Numbering

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

A: Series  
 B: Dimension L x W  
 C: Category Code V=Vehicle  
 D: Inductance 1R8=1.8uH  
 E: Inductance Tolerance K=±10%, L=±15%, M=±20%

## Specification

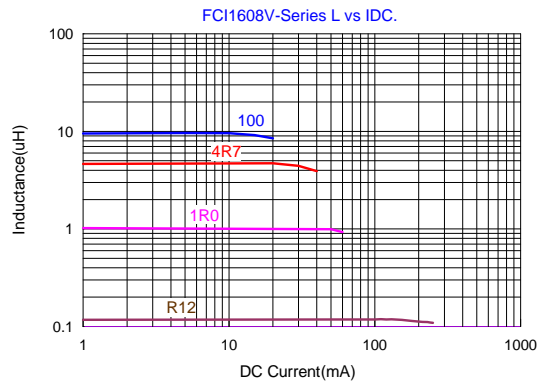
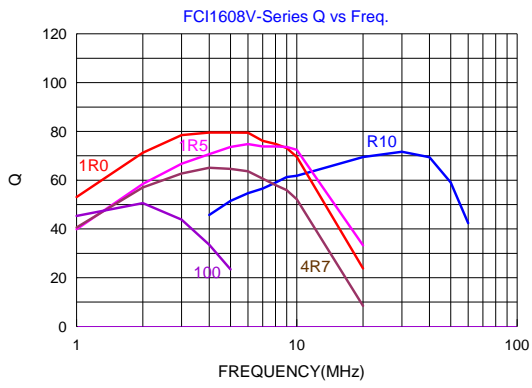
Tai-Tech Part Number	Inductance(uH)		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
	Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
FCI1608V-47N□	0.047	60mV / 50M	10	50	50	0.30	260
FCI1608V-68N□	0.068	60mV / 50M	10	50	50	0.30	250
FCI1608V-82N□	0.082	60mV / 50M	10	50	50	0.30	245
FCI1608V-R10□	0.10	60mV / 25M	15	25	50	0.50	240
FCI1608V-R12□	0.12	60mV / 25M	15	25	50	0.50	205
FCI1608V-R15□	0.15	60mV / 25M	15	25	50	0.60	180
FCI1608V-R18□	0.18	60mV / 25M	15	25	50	0.60	165
FCI1608V-R22□	0.22	60mV / 25M	15	25	50	0.80	150
FCI1608V-R27□	0.27	60mV / 25M	15	25	50	0.80	136
FCI1608V-R33□	0.33	60mV / 25M	15	25	35	0.85	125
FCI1608V-R39□	0.39	60mV / 25M	15	25	35	1.00	110
FCI1608V-R47□	0.47	60mV / 25M	15	25	35	1.35	105

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

Tai-Tech Part Number	Inductance( $\mu$ H)		Q		Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
	Tolerance	Test Frequency (Hz)	min.	Test Frequency (MHz)			
FCI1608V-R56□	0.56	60mV / 25M	15	25	35	1.55	95
FCI1608V-R68□	0.68	60mV / 25M	15	25	35	1.70	80
FCI1608V-R82□	0.82	60mV / 25M	15	25	35	2.10	75
FCI1608V-1R0□	1.0	60mV / 10M	30	10	25	0.60	70
FCI1608V-1R5□	1.5	60mV / 10M	30	10	25	0.80	55
FCI1608V-1R8□	1.8	60mV / 10M	30	10	25	0.95	50
FCI1608V-2R2□	2.2	60mV / 10M	30	10	15	1.15	45
FCI1608V-3R3□	3.3	60mV / 10M	30	10	15	1.55	38
FCI1608V-4R7□	4.7	60mV / 10M	30	10	15	2.10	33
FCI1608V-100□	10	60mV / 2M	30	2	15	2.55	17

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

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



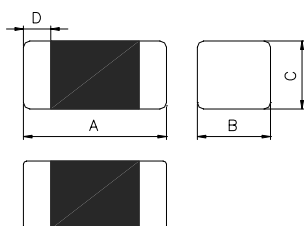
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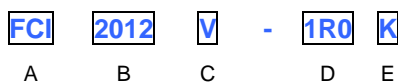
## Dimensions



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

## Part Numbering



- A: Series  
 B: Dimension                      L x W  
 C: Category Code                      V=Vehicle  
 D: Inductance                      1R0=1.0uH  
 E: Inductance Tolerance              K=±10%, L=±15%, M=±20%

## Specification

Tai-Tech Part Number	Thickness C size (mm)	Inductance (uH)	Q min.	Test Frequency (MHz)	Rated Current (mA) max.	DC Resistance (Ohm) max.	SRF (MHz) min.
FCI2012V-47N	0.85±0.2	0.047	15	50	300	0.20	320
FCI2012V-68N	0.85±0.2	0.068	15	50	300	0.20	280
FCI2012V-82N	0.85±0.2	0.082	15	50	300	0.20	255
FCI2012V-R10	0.85±0.2	0.10	20	25	250	0.30	235
FCI2012V-R12	0.85±0.2	0.12	20	25	250	0.30	220
FCI2012V-R15	0.85±0.2	0.15	20	25	250	0.40	200
FCI2012V-R18	0.85±0.2	0.18	20	25	250	0.40	185
FCI2012V-R22	0.85±0.2	0.22	20	25	250	0.50	170
FCI2012V-R27	0.85±0.2	0.27	20	25	250	0.50	150
FCI2012V-R33	0.85±0.2	0.33	20	25	250	0.55	145
FCI2012V-R39	0.85±0.2	0.39	25	25	200	0.65	135
FCI2012V-R47	1.25±0.2	0.47	25	25	200	0.65	125
FCI2012V-R56	1.25±0.2	0.56	25	25	150	0.75	115
FCI2012V-R68	1.25±0.2	0.68	25	25	150	0.80	105
FCI2012V-1R0	0.85±0.2	1.0	45	10	50	0.40	75
FCI2012V-1R5	0.85±0.2	1.5	45	10	50	0.50	60
FCI2012V-1R8	0.85±0.2	1.8	45	10	50	0.60	55
FCI2012V-2R2	0.85±0.2	2.2	45	10	30	0.65	50
FCI2012V-2R7	1.25±0.2	2.7	45	10	30	0.75	45
FCI2012V-3R3	1.25±0.2	3.3	45	10	30	0.80	41
FCI2012V-4R7	1.25±0.2	4.7	45	10	30	1.00	35
FCI2012V-100	1.25±0.2	10.0	45	2	15	1.15	24

: K=±10%,L=±15%,M=±20%

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

