

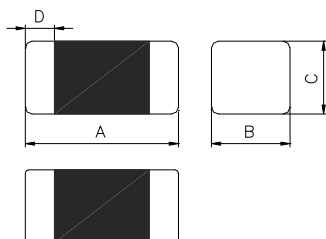
## 1.Features

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~+125°C (Including self-temperature rise)



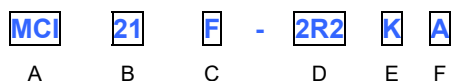
Certificate  
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## 2. Dimensions



Chip Size				
Type	A(mm)	B(mm)	C(mm)	D(mm)
21	2.00±0.20	1.25±0.20	0.85±0.20	0.50±0.30
2112	2.00±0.20	1.25±0.20	1.25±0.20	0.50±0.30

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Material  
 D: Inductance  
 E: Inductance Tolerance  
 F: Category Code
- Lead Free Material  
 2R2=2.20uH  
 K=±10%, L=±15%, M=±20%

## 4.Specification

Tai-Tech Part Number	Thickness C size(mm)	Inductance		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
		uH	Test Frequency (Hz)	min.	Test Frequency (MHz)			
MCI21F-47N□A	0.85±0.20	0.047	60mV / 50M	15	50	300	0.20	320
MCI21F-68N□A	0.85±0.20	0.068	60mV / 50M	15	50	300	0.20	280
MCI21F-82N□A	0.85±0.20	0.082	60mV / 50M	15	50	300	0.20	255
MCI21F-R10□A	0.85±0.20	0.10	60mV / 25M	20	25	250	0.30	235
MCI21F-R12□A	0.85±0.20	0.12	60mV / 25M	20	25	250	0.30	220
MCI21F-R15□A	0.85±0.20	0.15	60mV / 25M	20	25	250	0.40	200
MCI21F-R18□A	0.85±0.20	0.18	60mV / 25M	20	25	250	0.40	185
MCI21F-R22□A	0.85±0.20	0.22	60mV / 25M	20	25	250	0.50	170
MCI21F-R27□A	0.85±0.20	0.27	60mV / 25M	20	25	250	0.50	150
MCI21F-R33□A	0.85±0.20	0.33	60mV / 25M	20	25	250	0.55	145
MCI21F-R39□A	0.85±0.20	0.39	60mV / 25M	25	25	200	0.65	135
MCI2112F-R47□A	1.25±0.20	0.47	60mV / 25M	25	25	200	0.65	125
MCI2112F-R56□A	1.25±0.20	0.56	60mV / 25M	25	25	150	0.75	115
MCI2112F-R68□A	1.25±0.20	0.68	60mV / 25M	25	25	150	0.80	105

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

## TAI-TECH

Tai-Tech Part Number	Thickness C size(mm)	Inductance		Q		Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
		uH	Test Frequency (Hz)	min.	Test Frequency (MHz)			
MCI21F-1R0□A	0.85±0.20	1.00	60mV / 10M	45	10	50	0.40	75
MCI21F-1R5□A	0.85±0.20	1.50	60mV / 10M	45	10	50	0.50	60
MCI21F-1R8□A	0.85±0.20	1.80	60mV / 10M	45	10	50	0.60	55
MCI21F-2R2□A	0.85±0.20	2.20	60mV / 10M	45	10	30	0.65	50
MCI2112F-2R7□A	1.25±0.20	2.70	60mV / 10M	45	10	30	0.75	45
MCI2112F-3R3□A	1.25±0.20	3.30	60mV / 10M	45	10	30	0.80	41
MCI2112F-4R7□A	1.25±0.20	4.70	60mV / 10M	45	10	30	1.00	35
MCI2112F-100□A	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)**

