

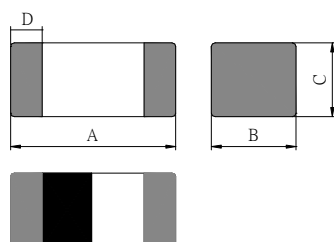
## 1. Features

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. Excellent solderability and heat resistance.
7. High SRF up to 6GHz and above.
8. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
9. Operating Temperature:-55~+105°C (Including self-temperature rise)



Certificate  
of  
Green Partner

## 2. Dimensions



Chip Size	
A	0.60±0.03
B	0.30±0.03
C	0.30±0.03
D	0.15±0.05

Units: mm

## 3. Part Numbering

HCI
0603
FQ
-
1N0
B
-
MS8

A      B      C      D      E      F

- A: Series  
 B: Dimension                      L x W  
 C: Category Code  
 D: Inductance                      1N0=1.0 nH  
 E: Inductance Tolerance        B=±0.1nH  
 F: marking

## 4. Specification

Tai-Tech Part Number	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q min.	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
HCI0603FQ-0N6□-MS8	0.6	B, C, S	500	14	1000	0.05	10000
HCI0603FQ-0N7□-MS8	0.7	B, C, S	500	14	1000	0.05	10000
HCI0603FQ-0N8□-MS8	0.8	B, C, S	500	14	1000	0.06	10000
HCI0603FQ-0N9□-MS8	0.9	B, C, S	500	14	800	0.06	10000
HCI0603FQ-1N0□-MS8	1.0	B, C, S	500	14	800	0.07	10000
HCI0603FQ-1N1□-MS8	1.1	B, C, S	500	14	800	0.07	10000
HCI0603FQ-1N2□-MS8	1.2	B, C, S	500	14	800	0.10	10000
HCI0603FQ-1N3□-MS8	1.3	B, C, S	500	14	700	0.10	10000

□ : B=±0.1nH , C=±0.2nH , S=±0.3nH

- Rated current: based on temperature rise test
- In compliance with EIA 595

Tai-Tech Part Number	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q min.	Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
HCI0603FQ-1N4□-MS8	1.4	B, C, S	500	14	700	0.10	10000
HCI0603FQ-1N5□-MS8	1.5	B, C, S	500	14	650	0.10	10000
HCI0603FQ-1N6□-MS8	1.6	B, C, S	500	14	650	0.10	10000
HCI0603FQ-1N7□-MS8	1.7	B, C, S	500	14	650	0.10	10000
HCI0603FQ-1N8□-MS8	1.8	B, C, S	500	14	650	0.15	9000
HCI0603FQ-2N0□-MS8	2.0	B, C, S	500	14	650	0.15	8500
HCI0603FQ-2N2□-MS8	2.2	B, C, S	500	14	650	0.15	7500
HCI0603FQ-2N4□-MS8	2.4	B, C, S	500	14	550	0.15	7500
HCI0603FQ-2N6□-MS8	2.6	B, C, S	500	14	550	0.20	7500
HCI0603FQ-2N7□-MS8	2.7	B, C, S	500	14	550	0.20	7500
HCI0603FQ-2N8□-MS8	2.8	B, C, S	500	14	500	0.20	7500
HCI0603FQ-3N0□-MS8	3.0	B, C, S	500	14	450	0.20	7500
HCI0603FQ-3N3□-MS8	3.3	B, C, S	500	14	450	0.25	7500
HCI0603FQ-3N6□-MS8	3.6	B, C, S	500	14	400	0.25	6500
HCI0603FQ-3N9□-MS8	3.9	B, C, S	500	14	400	0.25	6500
HCI0603FQ-4N3□-MS8	4.3	B, C, S	500	14	350	0.35	6000
HCI0603FQ-4N7□-MS8	4.7	B, C, S	500	14	350	0.40	6000
HCI0603FQ-5N1□-MS8	5.1	B, C, S	500	14	350	0.40	5500
HCI0603FQ-5N6□-MS8	5.6	B, C, S	500	14	350	0.40	5000
HCI0603FQ-6N2□-MS8	6.2	B, C, S	500	14	300	0.40	5000
HCI0603FQ-6N8□-MS8	6.8	H, J	500	14	300	0.50	4500
HCI0603FQ-7N5□-MS8	7.5	H, J	500	14	300	0.50	4000
HCI0603FQ-8N2□-MS8	8.2	H, J	500	14	250	0.50	4000
HCI0603FQ-9N1□-MS8	9.1	H, J	500	14	250	0.70	4000
HCI0603FQ-10N□-MS8	10	H, J	500	14	250	0.70	4000
HCI0603FQ-12N□-MS8	12	H, J	500	13	250	0.70	3500
HCI0603FQ-15N□-MS8	15	H, J	500	13	250	0.85	3200
HCI0603FQ-18N□-MS8	18	H, J	500	13	200	1.00	3000
HCI0603FQ-20N□-MS8	20	H, J	500	13	150	1.10	2200
HCI0603FQ-22N□-MS8	22	H, J	500	13	150	1.20	2200
HCI0603FQ-27N□-MS8	27	H, J	500	13	140	1.50	2200
HCI0603FQ-33N□-MS8	33	H, J	300	12	120	1.80	1800
HCI0603FQ-36N□-MS8	36	H, J	300	12	120	2.00	1700
HCI0603FQ-39N□-MS8	39	H, J	300	12	120	2.00	1600

□ : B=±0.1nH, C=±0.2nH, S=±0.3nH, H=±3%, J=±5%

- Rated current: based on temperature rise test
- In compliance with EIA 595

Tai-Tech Part Number	Inductance (nH)	Tolerance	Test Frequency (MHz)	Q min.	Rated Current (mA) max.	DCR ( $\Omega$ ) max.	SRF (MHz) min.
HCI0603FQ-43N□-MS8	43	H, J	300	12	100	2.20	1600
HCI0603FQ-47N□-MS8	47	H, J	300	12	100	2.20	1500
HCI0603FQ-56N□-MS8	56	H, J	300	12	100	2.50	1200
HCI0603FQ-68N□-MS8	68	H, J	300	12	100	3.20	1000
HCI0603FQ-75N□-MS8	75	H, J	300	11	100	3.60	1000
HCI0603FQ-82N□-MS8	82	H, J	300	11	100	3.80	1000
HCI0603FQ-91N□-MS8	91	H, J	300	11	80	3.80	900
HCI0603FQ-R10□-MS8	100	H, J	300	11	80	4.00	800
HCI0603FQ-R12□-MS8	120	H, J	300	10	80	5.00	800

□ : H=±3% ,J=±5%

- Rated current: based on temperature rise test
- In compliance with EIA 595

Impedance, Inductance, Q v.s. Frequency Characteristics(Typical)

