

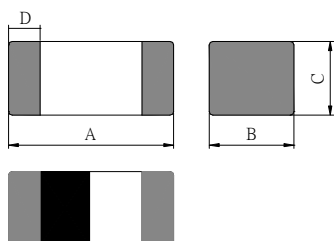
1. Features

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)



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of
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2. Dimensions



Chip Size	
A	1.00±0.15
B	0.50±0.15
C	0.50±0.15
D	0.25±0.10

Units: mm

3. Part Numbering

HCI **1005** **FQ** - **2N2** **S** - **MS8**
 A B C D E F

A: Series

B: Dimension

L x W

C: Category Code

D: Inductance

2N2=2.2 nH

E: Inductance Tolerance

S=±0.3

F: marking

4. Specification

Tai-Tech Part Number	Inductance (nH)	Test Frequency (Hz)	Q min.	Q(Typ.) 500MHz	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
HCI1005FQ-1N0S-MS8	1.0±0.3	100M / 50mV	8	22	1000	0.06	10000
HCI1005FQ-1N1S-MS8	1.1±0.3	100M / 50mV	8	23	1000	0.07	10000
HCI1005FQ-1N2S-MS8	1.2±0.3	100M / 50mV	8	23	1000	0.07	10000
HCI1005FQ-1N3S-MS8	1.3±0.3	100M / 50mV	8	22	1000	0.07	10000
HCI1005FQ-1N5S-MS8	1.5±0.3	100M / 50mV	8	23	1000	0.08	6000
HCI1005FQ-1N6S-MS8	1.6±0.3	100M / 50mV	8	23	1000	0.08	6000
HCI1005FQ-1N8S-MS8	1.8±0.3	100M / 50mV	8	20	900	0.08	6000
HCI1005FQ-2N0S-MS8	2.0±0.3	100M / 50mV	8	21	900	0.09	6000
HCI1005FQ-2N2S-MS8	2.2±0.3	100M / 50mV	8	22	900	0.09	6000
HCI1005FQ-2N4S-MS8	2.4±0.3	100M / 50mV	8	21	800	0.10	6000
HCI1005FQ-2N7S-MS8	2.7±0.3	100M / 50mV	8	22	800	0.12	6000

Tai-Tech Part Number	Inductance (nH)	Test Frequency (Hz)	Q min.	Q(Typ.) 500MHz	Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
HCI1005FQ-3N0S-MS8	3.0±0.3	100M / 50mV	8	24	800	0.12	6000
HCI1005FQ-3N3S-MS8	3.3±0.3	100M / 50mV	8	24	800	0.13	6000
HCI1005FQ-3N6S-MS8	3.6±0.3	100M / 50mV	8	21	700	0.15	4000
HCI1005FQ-3N9S-MS8	3.9±0.3	100M / 50mV	8	22	700	0.16	4000
HCI1005FQ-4N3S-MS8	4.3±0.3	100M / 50mV	8	24	700	0.16	4000
HCI1005FQ-4N7S-MS8	4.7±0.3	100M / 50mV	8	23	700	0.16	4000
HCI1005FQ-5N1S-MS8	5.1±0.3	100M / 50Mv	8	23	600	0.16	4000
HCI1005FQ-5N6S-MS8	5.6±0.3	100M / 50mV	8	22	600	0.20	4000
HCI1005FQ-6N2S-MS8	6.2±0.3	100M / 50mV	8	24	600	0.20	3900
HCI1005FQ-6N8J-MS8	6.8±5%	100M / 50mV	8	23	600	0.20	3900
HCI1005FQ-7N5J-MS8	7.5±5%	100M / 50mV	8	24	500	0.24	3700
HCI1005FQ-8N2J-MS8	8.2±5%	100M / 50mV	8	23	500	0.24	3600
HCI1005FQ-9N1J-MS8	9.1±5%	100M / 50mV	8	24	500	0.26	3400
HCI1005FQ-10NJ-MS8	10±5%	100M / 50mV	8	24	500	0.26	3200
HCI1005FQ-12NJ-MS8	12±5%	100M / 50mV	8	23	400	0.50	2700
HCI1005FQ-15NJ-MS8	15±5%	100M / 50mV	8	23	400	0.50	2300
HCI1005FQ-18NJ-MS8	18±5%	100M / 50mV	8	23	350	0.60	2100
HCI1005FQ-20NJ-MS8	20±5%	100M / 50mV	8	21	350	0.60	2000
HCI1005FQ-22NJ-MS8	22±5%	100M / 50mV	8	22	350	0.60	1900
HCI1005FQ-27NJ-MS8	27±5%	100M / 50mV	8	20	300	0.70	1600
HCI1005FQ-33NJ-MS8	33±5%	100M / 50mV	8	20	300	0.80	1300
HCI1005FQ-39NJ-MS8	39±5%	100M / 50mV	8	20	250	1.00	1200
HCI1005FQ-43NJ-MS8	43±5%	100M / 50mV	8	20	250	1.10	1100
HCI1005FQ-47NJ-MS8	47±5%	100M / 50mV	8	19	250	1.10	1000
HCI1005FQ-56NJ-MS8	56±5%	100M / 50mV	8	19	200	1.20	750
HCI1005FQ-68NJ-MS8	68±5%	100M / 50mV	8	17	200	1.40	750
HCI1005FQ-82NJ-MS8	82±5%	100M / 50mV	8	16	200	1.60	750
HCI1005FQ-R10J-MS8	100±5%	100M / 50mV	8	17	200	2.00	700
HCI1005FQ-R12J-MS8	120±5%	100M / 50mV	8	12	150	2.50	600
HCI1005FQ-R15J-MS8	150±5%	100M / 50mV	8	11	150	3.00	550
HCI1005FQ-R18J-MS8	180±5%	100M / 50mV	8	-	150	3.50	500
HCI1005FQ-R22J-MS8	220±5%	100M / 50mV	8	-	100	3.70	450
HCI1005FQ-R27J-MS8	270±5%	100M / 50mV	8	-	100	4.50	400
HCI1005FQ-R33J-MS8	330±5%	50M / 50mV	6	-	80	5.00	350
HCI1005FQ-R36J-MS8	360±5%	50M / 50mV	6	-	80	6.00	300

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

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

