

## (II) MULTILAYER CHIP INDUCTORS

### 2. HTIS Series (Ceramic Type)

Range of Size: (0603(0201)~1608(0603))

Test Equipment : E4991A IMPEDANCE ANALYZER

Operating Temperature : -55 ~+125

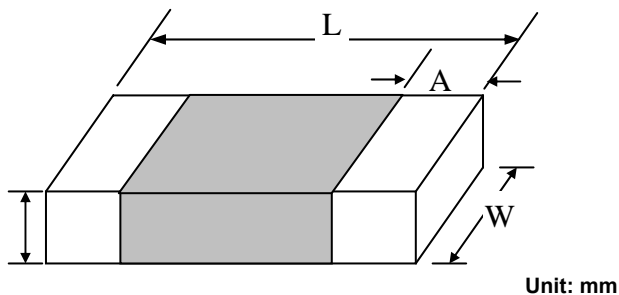


#### Features

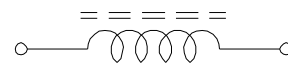
- > Supports operating frequency bands up to 10GHz .
- > Excellent solderability and high heat resistance for either flow or reflow soldering.
- > High reliability due to an entirely monolithic structure.
- > Provides high Q characteristics.
- > HTIS series made of advanced ceramics and low resistance silver conductors provides excellent Q and SRF characteristics.

#### General Dimensions and Configuration

##### SHAPE:



##### EQUIVALENT CIRCUIT DIAGRAM:

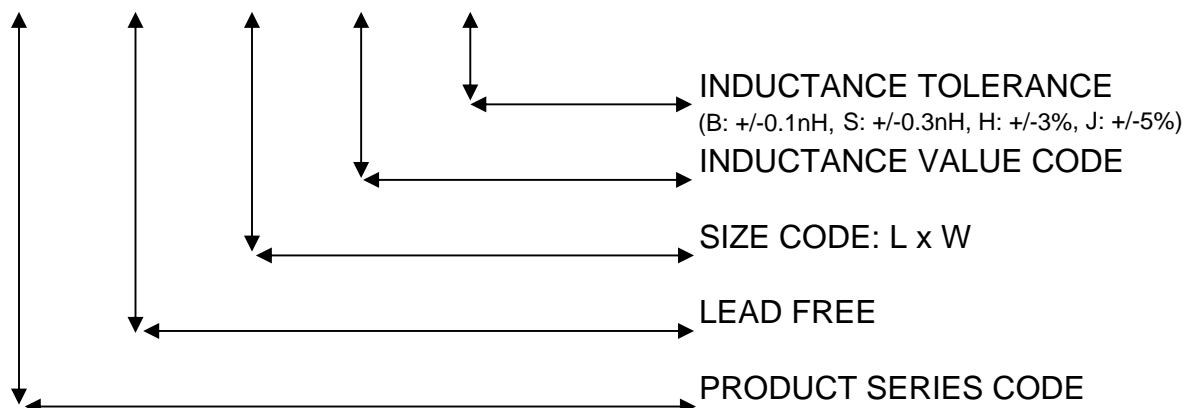


##### DIMENSIONS:

SHAPE	L (m/m)	W (m/m)	T (m/m)	A (m/m)	Net Weight (mg)
0603(0201)	0.60±0.03	0.30±0.03	0.30±0.03	0.10~0.20	0.26
1005(0402)	1.00±0.10	0.50±0.05	0.50±0.05	0.10~0.30	1.10
1608(0603)	1.60±0.15	0.80±0.15	0.80±0.15	0.20~0.60	5.80

#### Part Numbering Systems

HTI S 1005V -1N8 B



## (II) MULTILAYER CHIP INDUCTORS

Tri-Tron

### 2. HTIS Series (Ceramic Type) (Size: 1005 (0402))

#### Electrical Characteristics

Inductance (nH)	Tolerance	Quality Factor /min.	Test Freq. (MHz)	Test Voltage (mV)	SRF (GHz) Min.	RDC (Ω) Max.	Rate Current (mA) Max.
1.0	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	10.00	0.06	1000
1.1	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	10.00	0.07	1000
1.2	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	10.00	0.07	1000
1.3	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	10.00	0.07	1000
1.5	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.08	1000
1.6	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.08	1000
1.8	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.08	900
2.0	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.09	900
2.2	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.09	900
2.4	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.10	800
2.7	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.12	800
3.0	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.12	800
3.3	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	6.00	0.13	800
3.6	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.15	700
3.9	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.16	700
4.3	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.16	700
4.7	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.16	700
5.1	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.16	600
5.6	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	4.00	0.20	600
6.2	±0.1nH, ±0.2nH, ±0.3nH	8	100	50	3.90	0.20	600
6.8	±3%, ±5%	8	100	50	3.90	0.20	600
7.5	±3%, ±5%	8	100	50	3.70	0.24	500
8.2	±3%, ±5%	8	100	50	3.60	0.24	500
9.1	±3%, ±5%	8	100	50	3.40	0.26	500
10	±3%, ±5%	8	100	50	3.20	0.26	500
12	±3%, ±5%	8	100	50	2.70	0.50	400
15	±3%, ±5%	8	100	50	2.30	0.50	400
18	±3%, ±5%	8	100	50	2.10	0.60	350
20	±3%, ±5%	8	100	50	2.00	0.60	350
22	±3%, ±5%	8	100	50	1.90	0.60	350
27	±3%, ±5%	8	100	50	1.60	0.70	300
33	±3%, ±5%	8	100	50	1.30	0.80	300
39	±3%, ±5%	8	100	50	1.20	1.00	250
43	±3%, ±5%	8	100	50	1.10	1.10	250
47	±3%, ±5%	8	100	50	1.00	1.10	250
56	±3%, ±5%	8	100	50	0.75	1.20	200
68	±3%, ±5%	8	100	50	0.75	1.40	200
82	±3%, ±5%	8	100	50	0.75	1.60	200
100	±3%, ±5%	8	100	50	0.70	2.00	200
120	±3%, ±5%	8	100	50	0.60	2.50	150
150	±3%, ±5%	8	100	50	0.55	3.00	150
180	±3%, ±5%	8	100	50	0.50	3.50	150
220	±3%, ±5%	8	100	50	0.45	3.70	100
270	±3%, ±5%	8	100	50	0.40	4.50	100
330	±3%, ±5%	6	50	50	0.35	5.00	80
360	±3%, ±5%	6	50	50	0.30	6.00	80

■ Operating temperature range: -55~+125°C

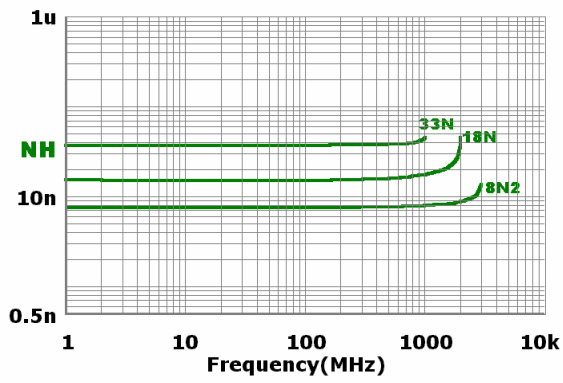
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Rating Curves

HTIS1005 Series

Inductance vs Frequency



Q vs Frequency

