

2. HTIS Series (Ceramic Type)

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

Test Equipment : E4991A IMPEDANCE ANALYZER

Operating Temperature : -55 ~+125

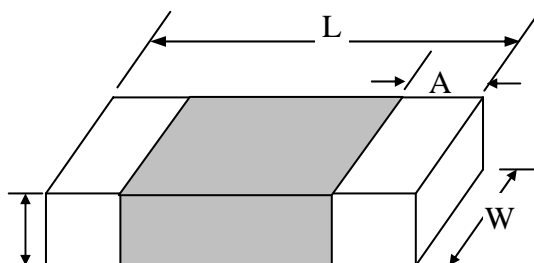


Features

- > 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.

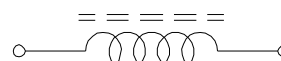
General Dimensions and Configuration

SHAPE:



Unit: mm

EQUIVALENT CIRCUIT DIAGRAM:

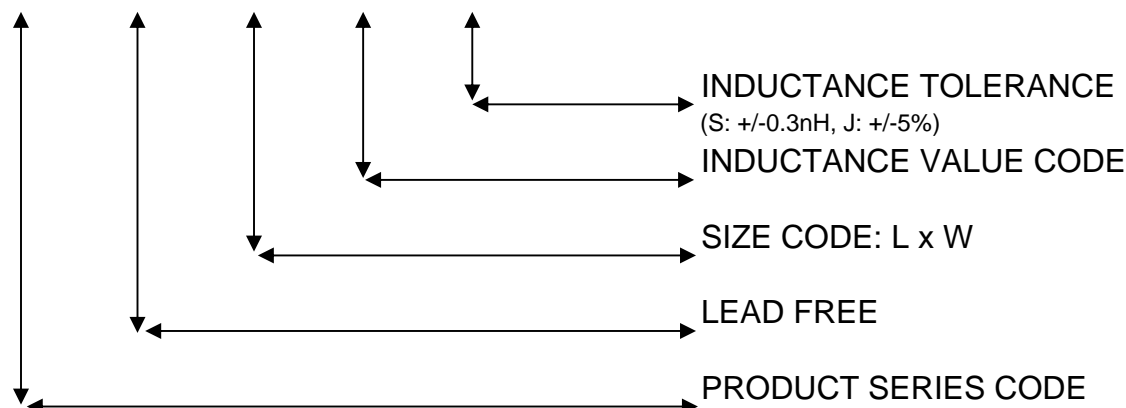


DIMENSIONS:

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 1005 - 8N2 J



(II) MULTILAYER CHIP INDUCTORS

Tri-Tron

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

Electrical Characteristics

Part No.	Inductance (nH) Tolerance	Q (Min.)	Test Freq. L,Q (MHz)	Self-resonant Freq.(GHz) (Min.)	DC Resistance (Max.)	Rated Current mA (Max.)	Thickness (m/m)
HTIS1005-1N0S	1.0±0.3nH	8	100	8	0.10	300	0.5±0.05
HTIS1005-1N2S	1.2±0.3nH	8	100	8	0.10	300	0.5±0.05
HTIS1005-1N5S	1.5±0.3nH	8	100	8	0.10	300	0.5±0.05
HTIS1005-1N8S	1.8±0.3nH	8	100	6	0.10	300	0.5±0.05
HTIS1005-2N0S	2.0±0.3nH	8	100	6	0.12	300	0.5±0.05
HTIS1005-2N2S	2.2±0.3nH	8	100	6	0.15	300	0.5±0.05
HTIS1005-2N4S	2.4±0.3nH	8	100	6	0.16	300	0.5±0.05
HTIS1005-2N7S	2.7±0.3nH	8	100	6	0.17	300	0.5±0.05
HTIS1005-3N0S	3.0±0.3nH	8	100	6	0.18	300	0.5±0.05
HTIS1005-3N3S	3.3±0.3nH	8	100	6	0.19	300	0.5±0.05
HTIS1005-3N9S	3.9±0.3nH	8	100	6	0.19	300	0.5±0.05
HTIS1005-4N7S	4.7±0.3nH	8	100	6	0.23	300	0.5±0.05
HTIS1005-5N6S	5.6±0.3nH	8	100	5.3	0.26	300	0.5±0.05
HTIS1005-6N8J	6.8±5%	8	100	4.2	0.29	300	0.5±0.05
HTIS1005-8N2J	8.2±5%	8	100	3.6	0.33	300	0.5±0.05
HTIS1005-9N1J	9.1±5%	8	100	3.4	0.34	300	0.5±0.05
HTIS1005-10NJ	10±5%	8	100	3.2	0.35	300	0.5±0.05
HTIS1005-12NJ	12±5%	8	100	2.8	0.41	300	0.5±0.05
HTIS1005-15NJ	15±5%	8	100	2.3	0.46	300	0.5±0.05
HTIS1005-18NJ	18±5%	8	100	2.1	0.51	300	0.5±0.05
HTIS1005-22NJ	22±5%	8	100	1.8	0.58	300	0.5±0.05
HTIS1005-27NJ	27±5%	8	100	1.6	0.67	300	0.5±0.05
HTIS1005-33NJ	33±5%	8	100	1.5	0.67	200	0.5±0.05
HTIS1005-39NJ	39±5%	8	100	1.2	1.06	200	0.5±0.05
HTIS1005-47NJ	47±5%	8	100	1.0	1.15	200	0.5±0.05
HTIS1005-56NJ	56±5%	8	100	0.8	1.20	200	0.5±0.05
HTIS1005-68NJ	68±5%	8	100	0.8	1.25	180	0.5±0.05
HTIS1005-82NJ	82±5%	8	100	0.6	1.60	150	0.5±0.05
HTIS1005-R10J	100±5%	8	100	0.6	1.60	150	0.5±0.05
HTIS1005-R12J	120±5%	8	100	0.6	1.60	150	0.5±0.05

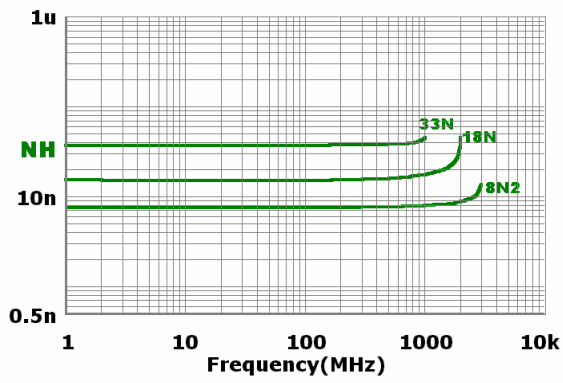
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Rating Curves

HTIS1005 Series

Inductance vs Frequency



Q vs Frequency

