

(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

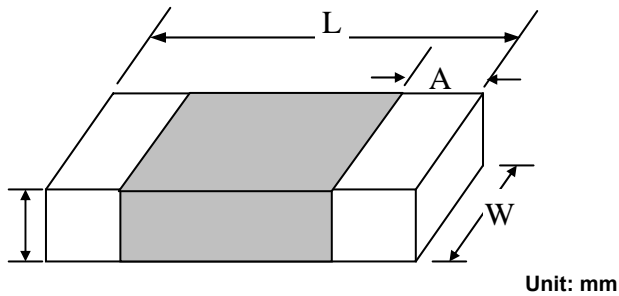


Features

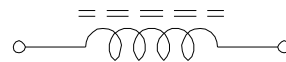
- > Supports operating frequency bands up to 10GHz .
- > Excellent solderability and high heat resistance for either flow or reflow soldering.
- > High reliability due to an entirely monolithic structure.
- > Provides high Q characteristics.
- > HTIS series made of advanced ceramics and low resistance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

General Dimensions and Configuration

SHAPE:



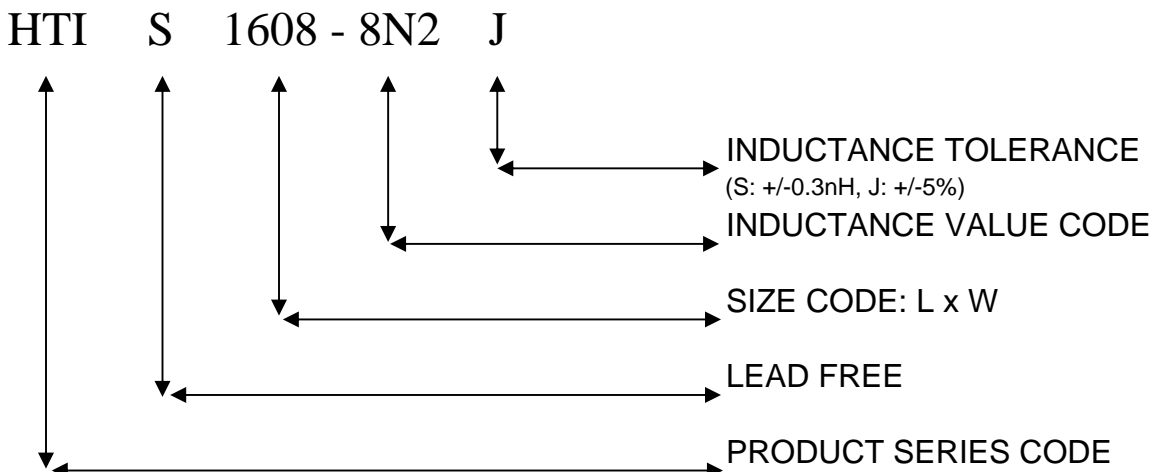
EQUIVALENT CIRCUIT DIAGRAM:



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



2. HTIS Series (Ceramic Type) (Size: 1608 (0603))**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)
HTIS1608-1N0S	1.0±0.3nH	8	100	10	0.05	300	0.8±0.15
HTIS1608-1N2S	1.2±0.3nH	8	100	10	0.05	300	0.8±0.15
HTIS1608-1N5S	1.5±0.3nH	8	100	6	0.10	300	0.8±0.15
HTIS1608-1N8S	1.8±0.3nH	8	100	6	0.10	300	0.8±0.15
HTIS1608-2N2S	2.2±0.3nH	8	100	6	0.10	300	0.8±0.15
HTIS1608-2N7S	2.7±0.3nH	10	100	6	0.10	300	0.8±0.15
HTIS1608-3N3S	3.3±0.3nH	10	100	6	0.12	300	0.8±0.15
HTIS1608-3N9S	3.9±0.3nH	10	100	6	0.14	300	0.8±0.15
HTIS1608-4N7S	4.7±0.3nH	10	100	4	0.16	300	0.8±0.15
HTIS1608-5N6S	5.6±0.3nH	10	100	4	0.18	300	0.8±0.15
HTIS1608-6N8J	6.8±5%	10	100	4	0.22	300	0.8±0.15
HTIS1608-7N5J	7.5±5%	10	100	3.5	0.22	300	0.8±0.15
HTIS1608-8N2J	8.2±5%	10	100	3.5	0.24	300	0.8±0.15
HTIS1608-10NJ	10±5%	12	100	3.4	0.26	300	0.8±0.15
HTIS1608-12NJ	12±5%	12	100	2.6	0.28	300	0.8±0.15
HTIS1608-15NJ	15±5%	12	100	2.3	0.32	300	0.8±0.15
HTIS1608-18NJ	18±5%	12	100	2.0	0.35	300	0.8±0.15
HTIS1608-22NJ	22±5%	12	100	1.6	0.40	300	0.8±0.15
HTIS1608-27NJ	27±5%	12	100	1.4	0.45	300	0.8±0.15
HTIS1608-33NJ	33±5%	12	100	1.2	0.55	300	0.8±0.15
HTIS1608-39NJ	39±5%	12	100	1.1	0.60	300	0.8±0.15
HTIS1608-47NJ	47±5%	12	100	0.9	0.70	300	0.8±0.15
HTIS1608-56NJ	56±5%	12	100	0.9	0.75	300	0.8±0.15
HTIS1608-68NJ	68±5%	12	100	0.7	0.85	300	0.8±0.15
HTIS1608-82NJ	82±5%	12	100	0.6	0.95	300	0.8±0.15
HTIS1608-R10J	100±5%	12	100	0.6	1.00	300	0.8±0.15
HTIS1608-R12J	120±5%	8	50	0.5	1.20	300	0.8±0.15
HTIS1608-R15J	150±5%	8	50	0.5	1.20	300	0.8±0.15
HTIS1608-R18J	180±5%	8	50	0.4	1.30	300	0.8±0.15
HTIS1608-R22J	220±5%	8	50	0.4	1.50	300	0.8±0.15

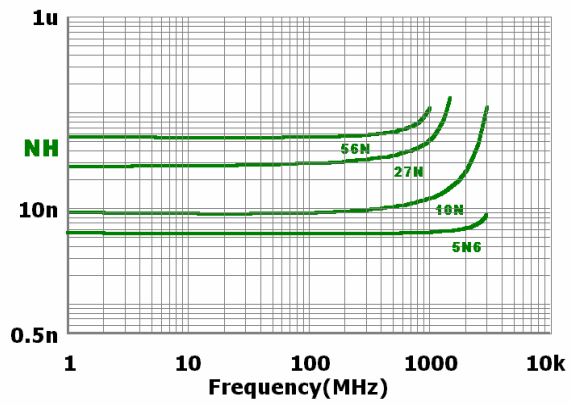
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Rating Curves

HTIS1608 Series

Inductance vs Frequency



Q vs Frequency

