

(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

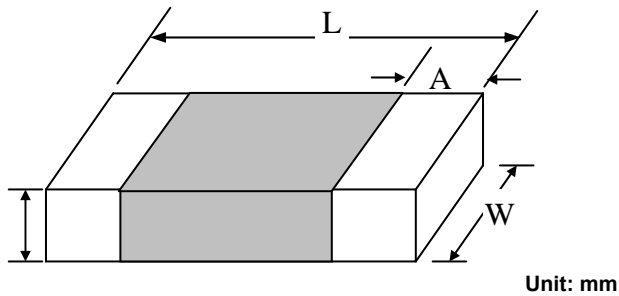


Features

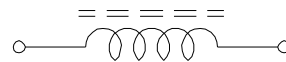
- > Supports operating frequency bands up to 10GHz .
- > Excellent solderability and high heat resistance for either flow or reflow soldering.
- > High reliability due to an entirely monolithic structure.
- > Provides high Q characteristics.
- > HTIS series made of advanced ceramics and low resistance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

General Dimensions and Configuration

SHAPE:



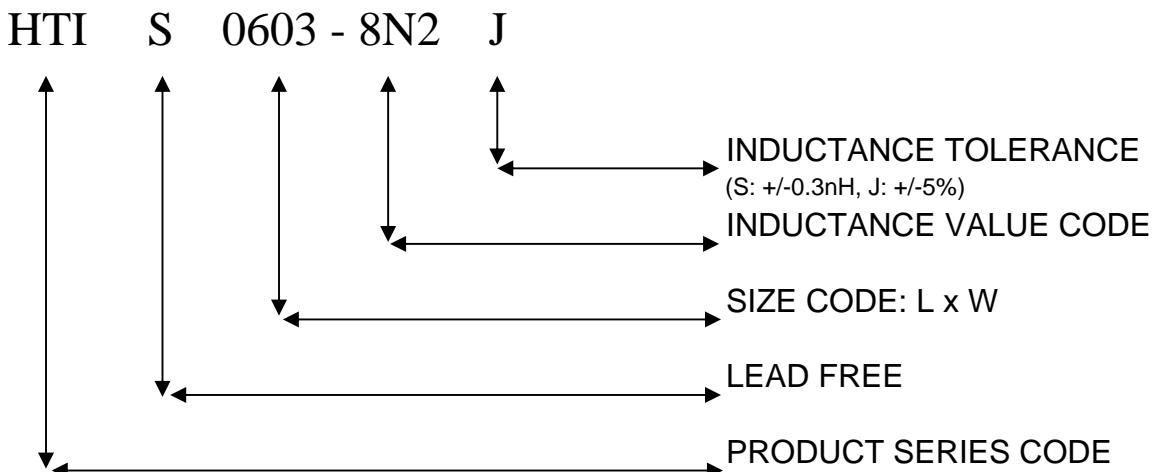
EQUIVALENT CIRCUIT DIAGRAM:



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



(II) MULTILAYER CHIP INDUCTORS

Tri-Tron

2. HTIS Series (Ceramic Type) (Size: 0603 (0201))

Electrical Characteristics

Part No.	Inductance (nH) Tolerance	Q (Min.)	Test Freq. L,Q (MHz@250mV)	Self-resonant Freq.(GHz) (Min.)	DC Resistance (Max.)	Rated Current mA (Max.)	Thickness (m/m)
HTIS0603-1N0S	1.0±0.3nH	4	100	10	0.11	470	0.30±0.03
HTIS0603-1N2S	1.2±0.3nH	4	100	10	0.12	450	0.30±0.03
HTIS0603-1N5S	1.5±0.3nH	4	100	10	0.13	430	0.30±0.03
HTIS0603-1N8S	1.8±0.3nH	4	100	10	0.16	390	0.30±0.03
HTIS0603-2N0S	2.0±0.3nH	4	100	8.8	0.17	380	0.30±0.03
HTIS0603-2N1S	2.1±0.3nH	4	100	8.8	0.20	200	0.30±0.03
HTIS0603-2N2S	2.2±0.3nH	4	100	8.8	0.19	360	0.30±0.03
HTIS0603-2N4S	2.4±0.3nH	4	100	8.3	0.20	350	0.30±0.03
HTIS0603-2N7S	2.7±0.3nH	4	100	7.7	0.21	340	0.30±0.03
HTIS0603-3N0S	3.0±0.3nH	4	100	7.2	0.22	330	0.30±0.03
HTIS0603-3N3S	3.3±0.3nH	4	100	6.7	0.23	320	0.30±0.03
HTIS0603-3N6S	3.6±0.3nH	4	100	6.4	0.25	310	0.30±0.03
HTIS0603-3N9S	3.9±0.3nH	4	100	6.0	0.27	300	0.30±0.03
HTIS0603-4N3S	4.3±0.3nH	4	100	5.7	0.30	280	0.30±0.03
HTIS0603-4N7S	4.7±0.3nH	4	100	5.3	0.30	280	0.30±0.03
HTIS0603-5N1S	5.1±0.3nH	4	100	5.0	0.33	270	0.30±0.03
HTIS0603-5N6S	5.6±0.3nH	4	100	4.6	0.36	260	0.30±0.03
HTIS0603-6N2S	6.2±0.3nH	4	100	4.2	0.38	250	0.30±0.03
HTIS0603-6N8J	6.8±5%	4	100	3.9	0.39	250	0.30±0.03
HTIS0603-7N5J	7.5±5%	4	100	3.6	0.41	240	0.30±0.03
HTIS0603-8N2J	8.2±5%	4	100	3.4	0.45	230	0.30±0.03
HTIS0603-9N1J	9.1±5%	4	100	3.2	0.48	220	0.30±0.03
HTIS0603-10NJ	10±5%	4	100	2.9	0.51	220	0.30±0.03
HTIS0603-12NJ	12±5%	4	100	2.7	0.68	190	0.30±0.03
HTIS0603-15NJ	15±5%	4	100	2.3	0.71	180	0.30±0.03
HTIS0603-18NJ	18±5%	4	100	2.1	0.81	170	0.30±0.03
HTIS0603-22NJ	22±5%	4	100	1.8	1.00	150	0.30±0.03
HTIS0603-27NJ	27±5%	4	100	1.8	1.35	120	0.30±0.03

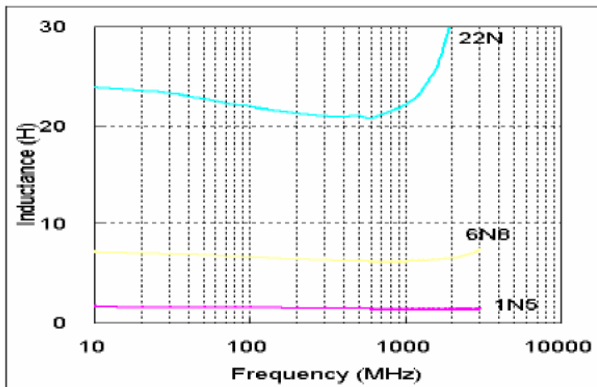
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Rating Curves

HTIS0603 Series

Inductance vs Frequency



Q vs Frequency

