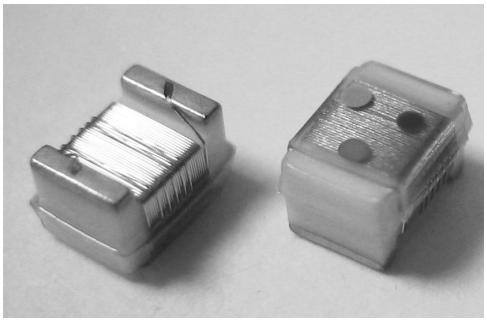
1. WTI Series (Ceramic Type)

Range of Size: (0402(1005)~1008(2520))
Test Equipment: ***HP4286, 4287A & 4291B*** *- For "Inductance" & "Q"*
HP4287A & 8753E *- For "SRF"*
HP4287A, GOM-801G & 502BC *- For "DCR"*
Operating Temperature: -40 ℃~+125 ℃



Applications

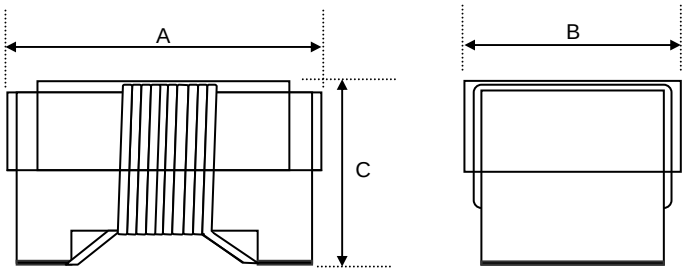
> Cordless (DECT/CT1CT2) & Cellular (CDMA/GSM/PHS) Phone.
> Remote control, wireless security system.
> WLL, Wireless LAN / Mouse / Keyboard / Earphone.
> GPS receiver.
> VCO, RF Module & other wireless products.
> CATV Filter, Tuner.
> Cable Modem / XDSL Tuner.
> Set Top Box.

Features

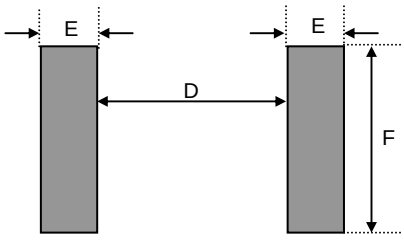
> Wirewound ceramic construction provide high SRF.
> Ultra compact inductors provide exceptional Q values.
> Low Profile, high Q are available.
> Outstanding endurance from Pull-up force, mechanical shock and pressure.
> Smaller size of 0402(1005) & tighter tolerance down to +/- 2%.

General Dimensions and Configuration

SHAPE:



PCB PATTERN



DIMENSIONS:

SERIES	A (m/m) (Max.)	B (m/m) (Max.)	C (m/m) (Max.)	D (m/m)	E (m/m)	F (m/m)
WTI-0402HC	1.27	0.76	0.61	0.46	0.50	0.66
WTI-0603C	1.80	1.12	1.02	0.64	0.64	1.02
WTI-0805C	2.29	1.73	1.52	0.76	1.02	1.78
WTI-1008C	2.92	2.79	2.03	1.27	1.27	2.54

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Inductance, SRF, Q and Rated Current ranges

SERIES	Inductance (nH)	SRF (Min.) (GHz)	Q (Min.)	I (Rated) (mA)
WTI-0402C	1.00~68	12.700~1.620	15~25	1360~100
WTI-0603C	1.60~390	12.500~0.900	16~40	700~100
WTI-0805C	2.70~4700	7.900~0.188	15~65	600~90
WTI-1008C	10.00~3900	4.100~0.100	20~65	1000~260

Color Coding

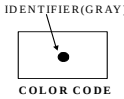
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

WTI-0402C Series

No Color Coding

WTI-0603C, WTI-0805C Series

Because of small size, these parts are marked with a single color dot.

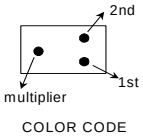


Ex : WTI-0805C-33NJ

MARKING : GRAY

WTI-1008C Series

These parts are marked with 3 color dots.



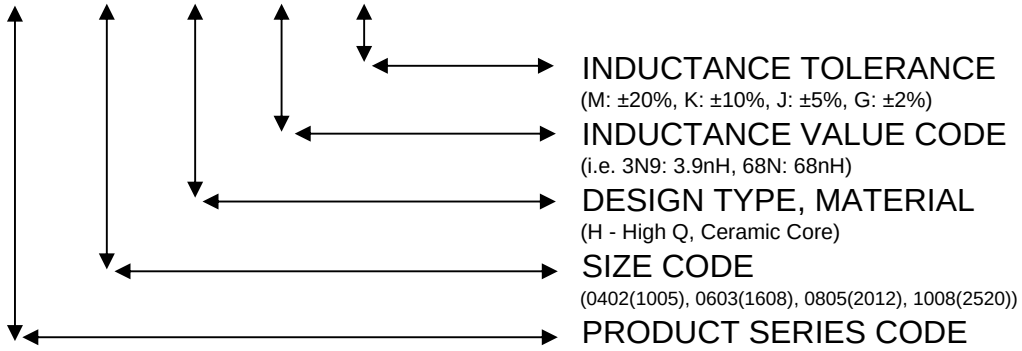
Ex : WTI-1008C-10NJ

MARKING : Dots 1 and 2 indicate the inductance in nano Henries.
(DOT 1：BROWN, DOT 2：BLACK)

MARKING : Dot 3 indicates number of zeroes to be added.
(DOT 3：BLACK)

Part Numbering Systems

WTI-0402HC -39N G



INDUCTANCE TOLERANCE
(M: ±20%, K: ±10%, J: ±5%, G: ±2%)

INDUCTANCE VALUE CODE
(i.e. 3N9: 3.9nH, 68N: 68nH)

DESIGN TYPE, MATERIAL
(H - High Q, Ceramic Core)

SIZE CODE
(0402(1005), 0603(1608), 0805(2012), 1008(2520))

PRODUCT SERIES CODE

1. WTI Series (Size: 0402 (1005))

Electrical Characteristics

WTI-0402HC Wire Wound Chip Inductors /High Q Type

Inductance (nH)	Tolerance	L Freq. (MHz)	Quality Factor		SRF (GHz) min.	DCR (Ω) max.	IDC (mA) max.
			900MHz	1.7GHz			
1.0	±0.2nH, ±0.5nH, ±5%, ±10%	250	46	75	16.0	0.030	2300
2.0	±0.2nH, ±0.5nH, ±5%, ±10%	250	58	85	15.2	0.038	2100
2.2	±0.2nH, ±0.5nH, ±5%, ±10%	250	60	86	15.1	0.038	2100
2.4	±0.2nH, ±0.5nH, ±5%, ±10%	250	60	83	14.0	0.042	2000
2.7	±0.2nH, ±0.5nH, ±5%, ±10%	250	62	85	13.0	0.075	1500
3.3	±0.2nH, ±0.5nH, ±5%, ±10%	250	66	95	12.8	0.045	1700
3.6	±0.2nH, ±0.5nH, ±5%, ±10%	250	65	94	11.7	0.045	1700
3.9	±0.2nH, ±0.5nH, ±5%, ±10%	250	64	98	9.50	0.045	1700
4.3	±0.5nH, ±5%, ±10%	250	63	90	7.15	0.050	1600
4.7	±0.5nH, ±5%, ±10%	250	58	83	6.85	0.070	1500
5.1	±2%, ±5%, ±10%	250	54	76	6.80	0.115	1200
5.6	±2%, ±5%, ±10%	250	73	105	6.50	0.050	1600
6.2	±2%, ±5%, ±10%	250	73	100	5.80	0.055	1600
6.8	±2%, ±5%, ±10%	250	68	94	5.80	0.065	1500
7.5	±2%, ±5%, ±10%	250	60	82	5.40	0.090	1400
8.2	±2%, ±5%, ±10%	250	68	95	5.40	0.065	1500
8.7	±2%, ±5%, ±10%	250	68	95	5.00	0.065	1500
9.0	±2%, ±5%, ±10%	250	67	92	5.00	0.080	1400
9.5	±2%, ±5%, ±10%	250	64	90	4.70	0.090	1400
10	±2%, ±5%, ±10%	250	62	90	4.70	0.100	1300
11	±2%, ±5%, ±10%	250	68	98	4.70	0.065	1400
12	±2%, ±5%, ±10%	250	66	100	4.40	0.100	1200
13	±2%, ±5%, ±10%	250	62	82	4.20	0.150	870
15	±2%, ±5%, ±10%	250	62	85	3.90	0.110	1100
16	±2%, ±5%, ±10%	250	57	77	3.70	0.140	850
18	±2%, ±5%, ±10%	250	58	74	3.55	0.120	900
19	±2%, ±5%, ±10%	250	61	88	3.50	0.145	850
20	±2%, ±5%, ±10%	250	58	76	3.50	0.185	780
21	±2%, ±5%, ±10%	250	48	62	1.70	0.460	450
22	±2%, ±5%, ±10%	250	60	74	3.30	0.160	800
23	±2%, ±5%, ±10%	250	60	77	3.30	0.160	800
24	±2%, ±5%, ±10%	250	55	71	3.15	0.200	700
25	±2%, ±5%, ±10%	250	57	73	3.15	0.250	600
26	±2%, ±5%, ±10%	250	56	74	3.15	0.285	450
27	±2%, ±5%, ±10%	250	62	86	3.20	0.320	450
30	±2%, ±5%, ±10%	250	61	87	2.90	0.330	450
33	±2%, ±5%, ±10%	250	61	80	2.80	0.330	490
36	±2%, ±5%, ±10%	250	59	76	2.80	0.380	480
37	±2%, ±5%, ±10%	250	57	72	2.70	0.460	470
39	±2%, ±5%, ±10%	250	56	84	2.60	0.430	450
40	±2%, ±5%, ±10%	250	56	75	2.60	0.430	450
43	±2%, ±5%, ±10%	250	52	68	2.50	0.520	450
47	±2%, ±5%, ±10%	250	48	62	2.40	0.580	420
51	±2%, ±5%, ±10%	250	52	59	2.30	0.700	360