

1. WTI Series (Ceramic Type)

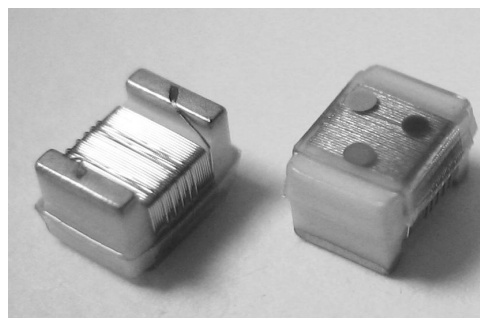
Range of Size: (0402(1005)~1210(3225))

Test Equipment: **HP4286, 4287A & 4291B** - For "Inductance" & "Q"

HP4287A & 8753E - For "SRF"

HP4287A, GOM-801G & 502BC - For "DCR"

Operating Temperature: -40 ~+125



Applications

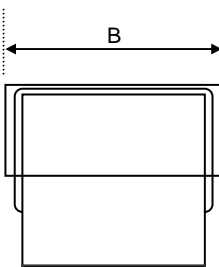
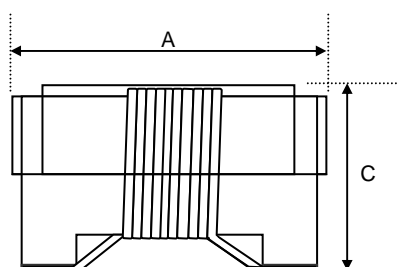
- > Cordless (DECT/CT1CT2) & Cellular (CDMA/GSM/PHS) Phone.
- > Remote control, wireless security system.
- > WLL, Wireless LAN / Mouse / Keyboard / Earphone.
- > GPS receiver.
- > VCO, RF Module & other wireless products.
- > CATV Filter, Tuner.
- > Cable Modem / XDSL Tuner.
- > Set Top Box.

Features

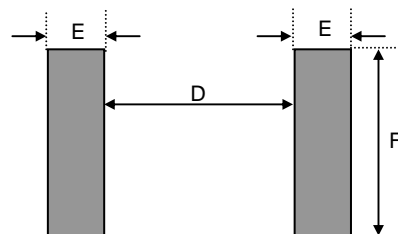
- > Wirewound ceramic construction provide high SRF.
- > Ultra compact inductors provide exceptional Q values.
- > Low Profile, high Q are available.
- > Outstanding endurance from Pull-up force, mechanical shock and pressure.
- > Smaller size of 0402(1005) & tighter tolerance down to +/- 2%.

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-0402C	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
WTI-1206C	3.45	1.90	1.40	1.78	1.02	1.93
WTI-1210C	3.42	2.80	2.30	2.30	1.02	2.20
WTI-0805LC	2.29	1.73	1.03	0.76	1.02	1.78
WTI-1008LC	2.92	2.79	1.40	1.27	1.02	2.54
WTI-0805HC	2.29	1.73	1.52	0.76	1.02	1.78
WTI-1008HC	2.92	2.79	2.03	1.27	1.02	2.54

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Operating Temperature : -40 ~+125

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	2.20~4700	7.900~0.040	15~80	800~90
WTI-1008C	10.00~4700	4.100~0.090	20~65	1000~260
WTI-1206C	6.80~1200	5.500~0.380	30~60	1000~300
WTI-1210C	4.70~3300	6.000~0.140	25~60	1000~150
WTI-0805LC	1.80~1000	9.400~0.080	16~60	800~170
WTI-1008LC	3.30~560	6.000~0.415	40~75	1000~400
WTI-0805HC	2.50~51	6.000~1.400	65~98	1600~1000
WTI-1008HC	3.00~100	6.000~0.820	50~80	1600~1000

Color Coding

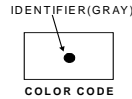
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

WTI-0402C Series

No Color Coding

WTI-0603C, WTI-0805C, WTI-0805(L,H)C, WTI-1008(L,H)C, WTI-1206C Series

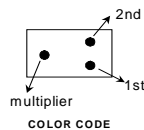
Because of small size, these parts are marked with a single color dot.



Ex : WTI-0805C-33NJ
MARKING : GRAY

WTI-1008C, WTI-1210C Series

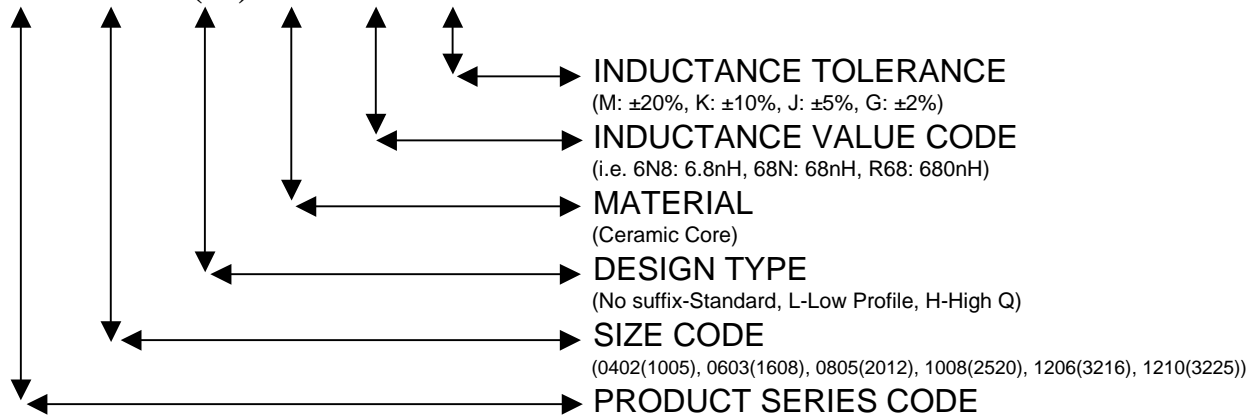
These parts are marked with 3 color dots.



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-0805 (H) C - 6N8 J



(IV) WIRE WOUND CHIP INDUCTORS

Tri-Tron

1(c). WTI Series (High Q Type) (Size: 0805(2012)~1008(2520))

Electrical Characteristics

0805 Wire Wound Chip Inductors / High Q Type

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR Ω (Max.)	Rated Current (mA)	Color Code
WTI-0805HC-2N5	2.5 @ 250	K, J	80 @ 1500	6.000	0.020	1600	Black
WTI-0805HC-5N6	5.6 @ 250	K, J	98 @ 1500	6.000	0.035	1600	Brown
WTI-0805HC-6N2	6.2 @ 250	K, J	88 @ 1000	4.750	0.035	1600	Red
WTI-0805HC-6N8	6.8 @ 250	K, J	80 @ 1000	4.400	0.035	1600	White
WTI-0805HC-8N2	8.2 @ 250	K, J	75 @ 1000	3.000	0.075	1000	Gray
WTI-0805HC-10N	10 @ 250	K, J	80 @ 1000	3.000	0.060	1600	Black
WTI-0805HC-12N	12 @ 250	K, J	80 @ 1000	3.000	0.045	1600	Orange
WTI-0805HC-15N	15 @ 250	K, J, G	80 @ 1000	2.800	0.100	1200	Black
WTI-0805HC-16N	16 @ 250	K, J, G	72 @ 500	2.950	0.060	1500	Yellow
WTI-0805HC-18N	18 @ 250	K, J, G	75 @ 500	2.550	0.060	1400	Green
WTI-0805HC-20N	20 @ 250	K, J, G	70 @ 500	2.050	0.055	1400	Blue
WTI-0805HC-22N	22 @ 250	K, J, G	80 @ 500	2.000	0.100	1200	Black
WTI-0805HC-27N	27 @ 250	K, J, G	75 @ 500	2.000	0.070	1300	Violet
WTI-0805HC-30N	30 @ 250	K, J, G	65 @ 500	1.950	0.095	1200	Gray
WTI-0805HC-39N	39 @ 250	K, J, G	65 @ 500	1.600	0.110	1100	White
WTI-0805HC-48N	48 @ 200	K, J, G	65 @ 500	1.400	0.095	1200	Black
WTI-0805HC-51N	51 @ 200	K, J, G	65 @ 500	1.400	0.120	1000	Brown

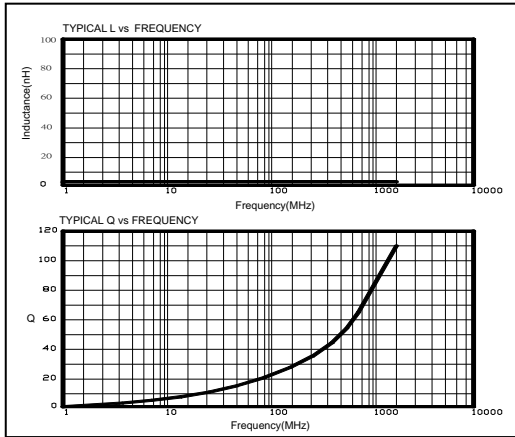
1008 Wire Wound Chip Inductors / High Q Type

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR Ω (Max.)	Rated Current (mA)	Color Code
WTI-1008HC-3N0	3.0 @ 50	K, J	70 @ 1500	6.000	0.04	1600	Black
WTI-1008HC-3N9	3.9 @ 50	K, J	75 @ 1500	6.000	0.05	1600	White
WTI-1008HC-4N1	4.1 @ 50	K, J	75 @ 1500	6.000	0.05	1600	Brown
WTI-1008HC-7N8	7.8 @ 50	K, J	75 @ 500	3.800	0.05	1600	Red
WTI-1008HC-10N	10 @ 50	K, J, G	60 @ 500	3.600	0.06	1600	Orange
WTI-1008HC-12N	12 @ 50	K, J, G	70 @ 500	2.800	0.06	1500	Yellow
WTI-1008HC-18N	18 @ 50	K, J, G	62 @ 350	2.700	0.07	1400	Green
WTI-1008HC-22N	22 @ 50	K, J, G	62 @ 350	2.050	0.07	1400	Blue
WTI-1008HC-33N	33 @ 50	K, J, G	75 @ 350	1.700	0.09	1300	Violet
WTI-1008HC-39N	39 @ 50	K, J, G	75 @ 350	1.300	0.09	1300	Gray
WTI-1008HC-47N	47 @ 50	K, J, G	75 @ 350	1.450	0.12	1200	White
WTI-1008HC-56N	56 @ 50	K, J, G	75 @ 350	1.230	0.12	1200	Black
WTI-1008HC-68N	68 @ 50	K, J, G	80 @ 350	1.150	0.13	1100	Brown
WTI-1008HC-82N	82 @ 50	K, J, G	80 @ 350	1.060	0.16	1100	Red
WTI-1008HC-R10	100 @ 50	K, J, G	50 @ 350	0.820	0.16	1000	Orange

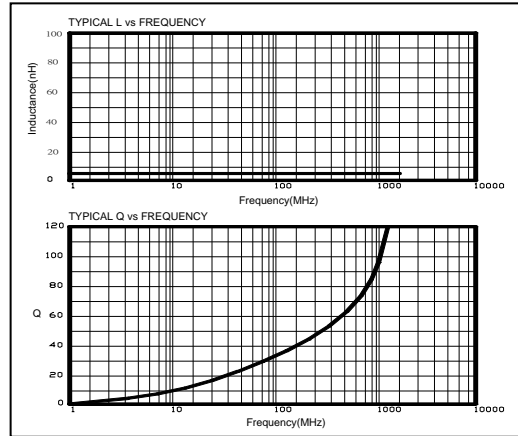
1(c). WTI Series (High Q Type) (Size: 0805 (2012))

Rating Curves

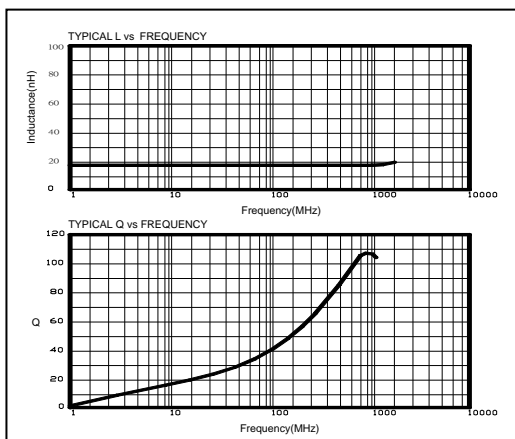
WTI-0805HC-2N5J



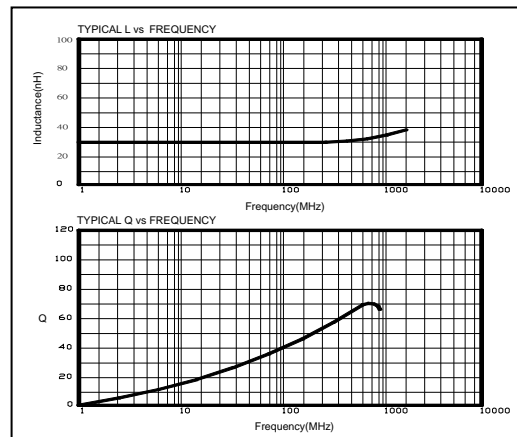
WTI-0805HC-6N2J



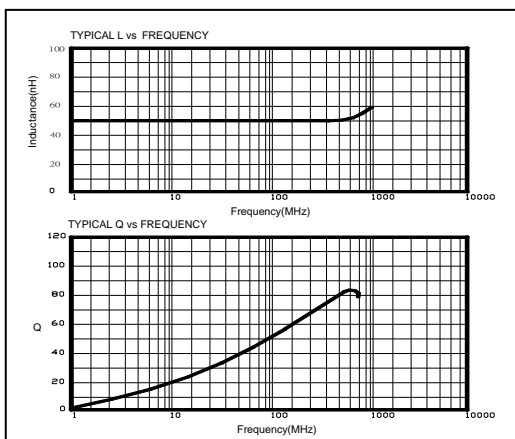
WTI-0805HC-18NJ



WTI-0805HC-30NJ



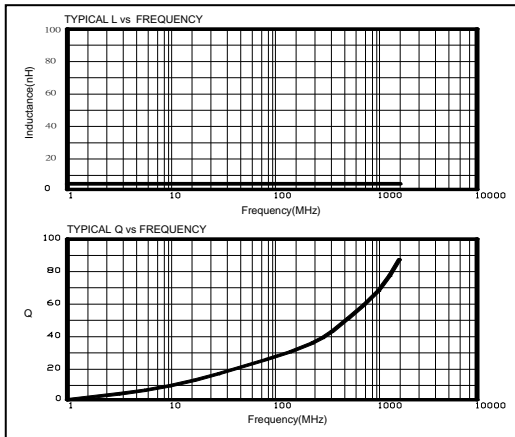
WTI-0805HC-51NJ



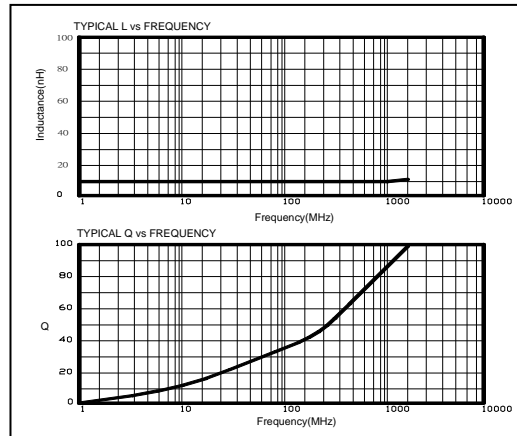
1(c). WTI Series (High Q Type) (Size: 1008 (2520))

Rating Curves

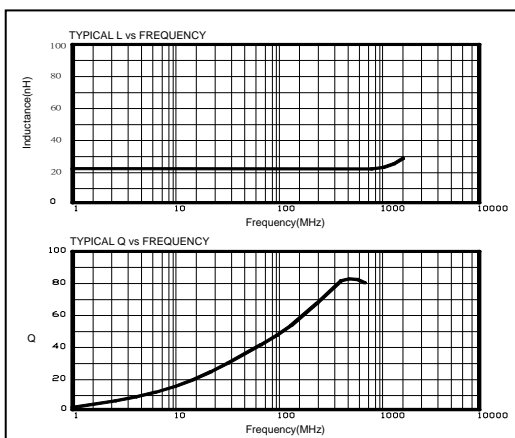
WTI-1008HC-4N1J



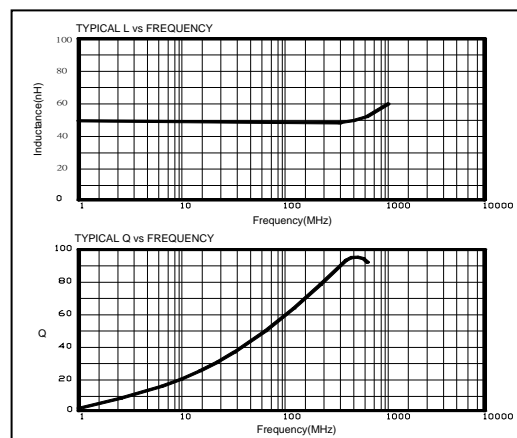
WTI-1008HC-10NJ



WTI-1008HC-22NJ



WTI-1008HC-47NJ



WTI-1008HC-82NJ

