

## 1. WTI Series (Ceramic Type)

### (b). UV glue cover type (Size: 0402(1005)~1008(2520))

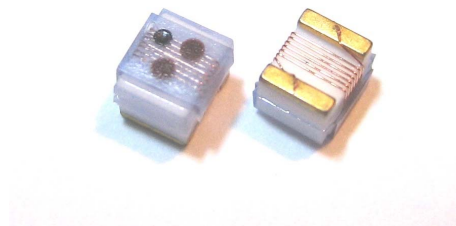
Range of Size: (0402(1005)~1008(2520))

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

**HP4287A & 8753E** - For "SRF"

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

Operating Temperature: -40 ~+125

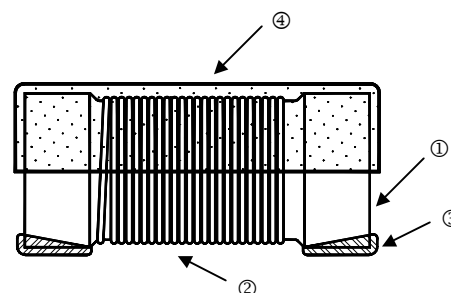


### Applications

- > 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%.

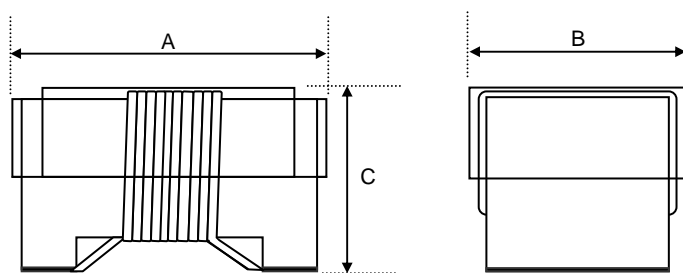


### Construction

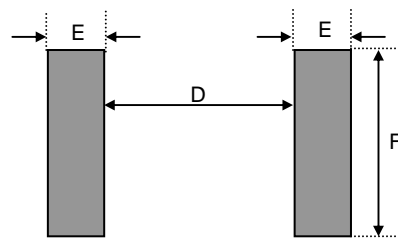
1. Ceramic Core
2. Wire
3. Electrode
4. UV Glue

### 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

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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**

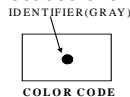
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

**WTI-0402C Series**

No Color Coding

**WTI-0603C, WTI-0805C Series**

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

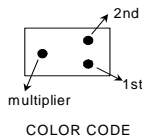


Ex : **WTI-0805C-33NJ**

**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.**

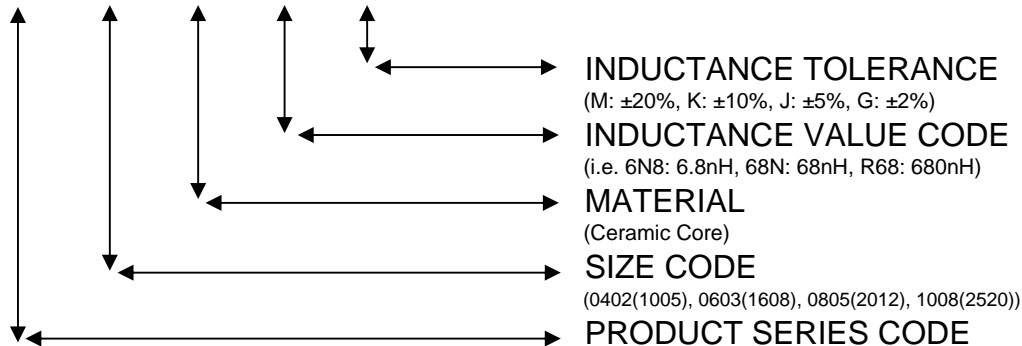
**(DOT 1 : BROWN , DOT 2 : BLACK)**

**MARKING : Dot 3 indicates number of zeroes to be added.**

**(DOT 3 : BLACK)**

**Part Numbering Systems**

**WTI- 1008 C - 68N J**



# ***(V) WIRE WOUND CHIP INDUCTORS***

Tri-Tron

## **1(b). WTI Series (UV glue cover) (Size: 0402(1005)~1008(2520))**

### **Electrical Characteristics**

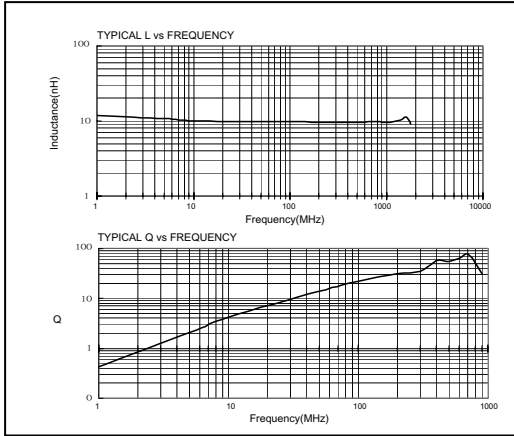
#### **WTI-1008C Series Wire Wound Chip Inductors / UV Glue Cover Type**

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR $\Omega$ (Max.)	Rated Current (mA)	Color Code		
							1st	2nd	Multiplier
WTI-1008C-10N	10 @ 50	M , K	50 @ 500	4.100	0.08	1000	Brown	Black	Black
WTI-1008C-12N	12 @ 50	M , K	50 @ 500	3.300	0.09	1000	Brown	Red	Black
WTI-1008C-15N	15 @ 50	M , K	50 @ 500	2.500	0.10	1000	Brown	Green	Black
WTI-1008C-18N	18 @ 50	K , J , G	50 @ 350	2.500	0.11	1000	Brown	Gray	Black
WTI-1008C-22N	22 @ 50	K , J , G	55 @ 350	2.400	0.12	1000	Red	Red	Black
WTI-1008C-27N	27 @ 50	K , J , G	55 @ 350	1.600	0.13	1000	Red	Violet	Black
WTI-1008C-33N	33 @ 50	K , J , G	60 @ 350	1.600	0.14	1000	Orange	Orange	Black
WTI-1008C-39N	39 @ 50	K , J , G	60 @ 350	1.500	0.15	1000	Orange	White	Black
WTI-1008C-47N	47 @ 50	K , J , G	65 @ 350	1.500	0.16	1000	Yellow	Violet	Black
WTI-1008C-56N	56 @ 50	K , J , G	65 @ 350	1.300	0.18	1000	Green	Blue	Black
WTI-1008C-68N	68 @ 50	K , J , G	65 @ 350	1.300	0.20	1000	Blue	Gray	Black
WTI-1008C-82N	82 @ 50	K , J , G	60 @ 350	1.000	0.22	1000	Gray	Red	Black
WTI-1008C-R10	100 @ 25	K , J , G	60 @ 350	1.000	0.56	650	Brown	Black	Brown
WTI-1008C-R12	120 @ 25	K , J , G	60 @ 350	0.950	0.63	650	Brown	Red	Brown
WTI-1008C-R15	150 @ 25	K , J , G	45 @ 100	0.850	0.70	580	Brown	Green	Brown
WTI-1008C-R18	180 @ 25	K , J , G	45 @ 100	0.750	0.77	620	Brown	Gray	Brown
WTI-1008C-R22	220 @ 25	K , J , G	45 @ 100	0.700	0.84	500	Red	Red	Brown
WTI-1008C-R27	270 @ 25	K , J , G	45 @ 100	0.600	0.91	500	Red	Violet	Brown
WTI-1008C-R33	330 @ 25	K , J , G	45 @ 100	0.570	1.05	450	Orange	Orange	Brown
WTI-1008C-R36	360 @ 25	K , J , G	40 @ 100	0.500	1.05	660	Orange	Blue	Brown
WTI-1008C-R39	390 @ 25	K , J , G	45 @ 100	0.500	1.12	470	Orange	White	Brown
WTI-1008C-R47	470 @ 25	K , J , G	45 @ 100	0.450	1.19	470	Yellow	Violet	Brown
WTI-1008C-R56	560 @ 25	K , J , G	45 @ 100	0.415	1.33	400	Green	Blue	Brown
WTI-1008C-R62	620 @ 25	K , J , G	45 @ 100	0.375	1.40	300	Blue	Red	Brown
WTI-1008C-R68	680 @ 25	K , J , G	45 @ 100	0.375	1.47	400	Blue	Gray	Brown
WTI-1008C-R75	750 @ 25	K , J , G	45 @ 100	0.360	1.54	360	Violet	Green	Brown
WTI-1008C-R82	820 @ 25	K , J , G	45 @ 100	0.350	1.61	400	Gray	Red	Brown
WTI-1008C-R91	910 @ 25	K , J , G	35 @ 50	0.320	1.68	380	White	Brown	Brown
WTI-1008C-1R0	1000 @ 25	K , J , G	35 @ 50	0.290	1.75	370	Brown	Black	Red
WTI-1008C-1R2	1200 @ 7.9	K , J , G	35 @ 50	0.250	2.00	310	Brown	Red	Red
WTI-1008C-1R5	1500 @ 7.9	K , J , G	28 @ 50	0.200	2.30	330	Brown	Green	Red
WTI-1008C-1R8	1800 @ 7.9	K , J , G	28 @ 50	0.160	2.60	300	Brown	Gray	Red
WTI-1008C-2R2	2200 @ 7.9	K , J , G	28 @ 50	0.160	2.80	280	Red	Red	Red
WTI-1008C-2R7	2700 @ 7.9	K , J , G	22 @ 25	0.140	3.20	290	Red	Violet	Red
WTI-1008C-3R3	3300 @ 7.9	K , J , G	22 @ 25	0.110	3.40	290	Orange	Orange	Red
WTI-1008C-3R9	3900 @ 7.9	K , J , G	20 @ 25	0.100	3.60	260	Orange	White	Red

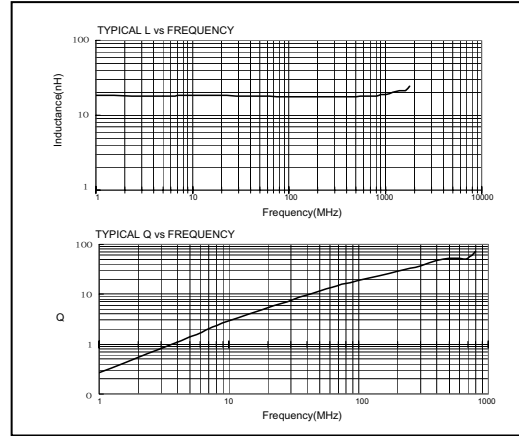
**1(b). WTI Series (UV glue cover) (Size: 0402(1005)~1008(2520))**

**Rating Curves**

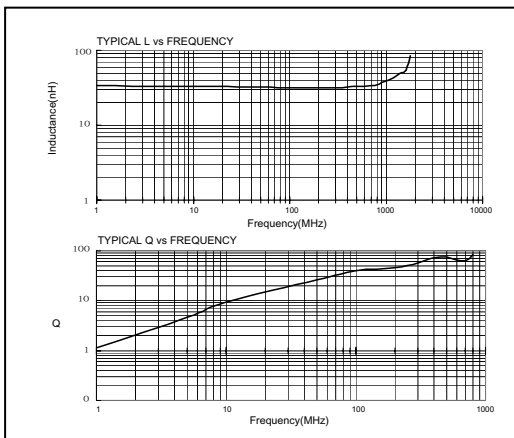
**WTI-1008C-10NJ**



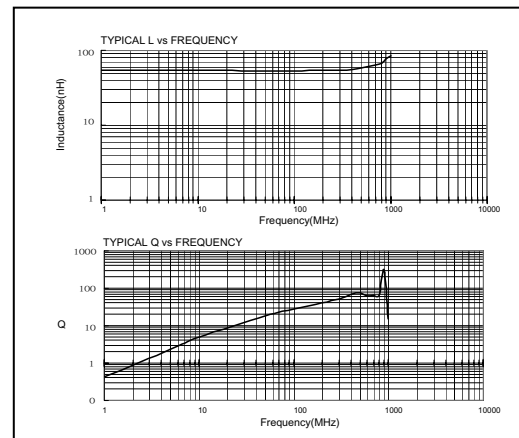
**WTI-1008C-18NJ**



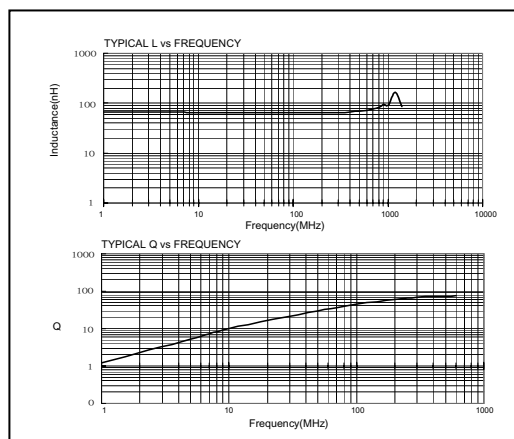
**WTI-1008C-33NJ**



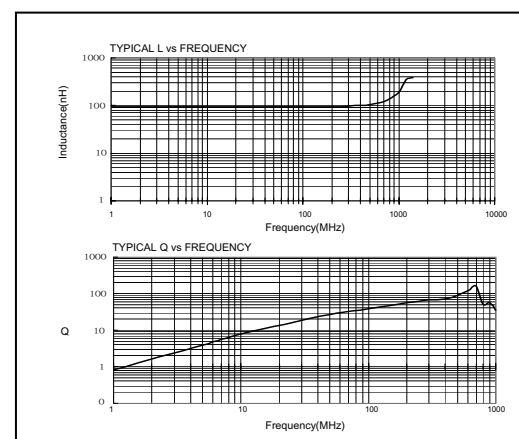
**WTI-1008C-56NJ**



**WTI-1008C-68NJ**



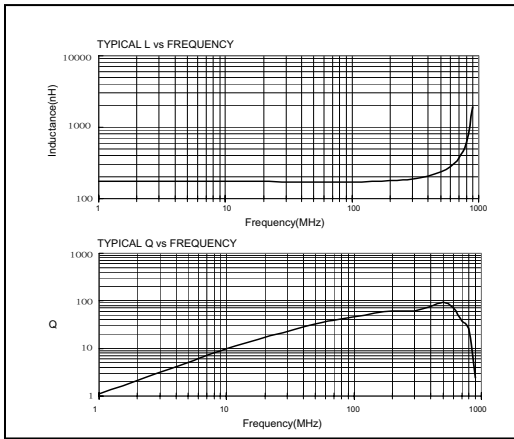
**WTI-1008C-R10J**



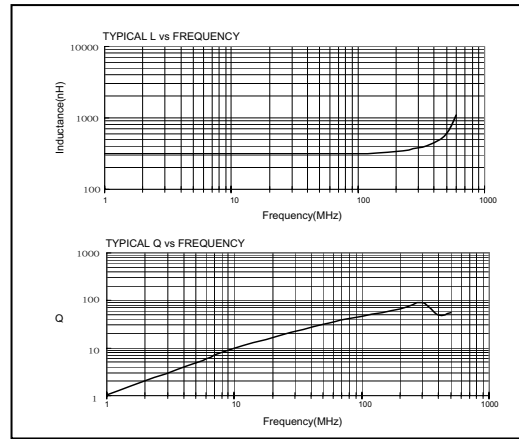
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### Rating Curves (Cont'd)

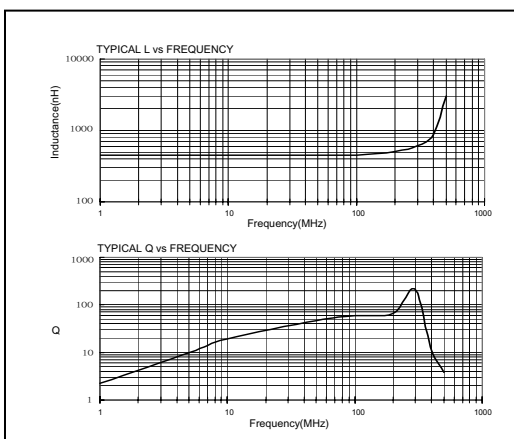
#### WTI-1008C-R18J



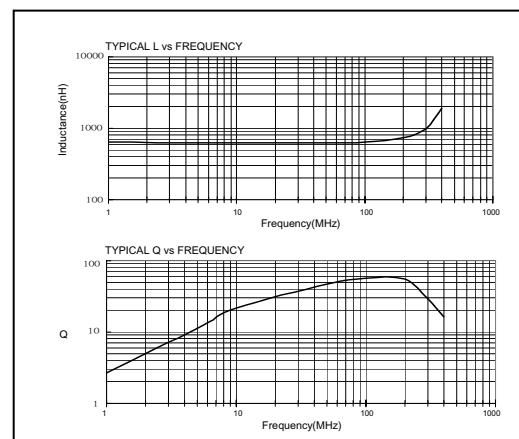
#### WTI-1008C-R33J



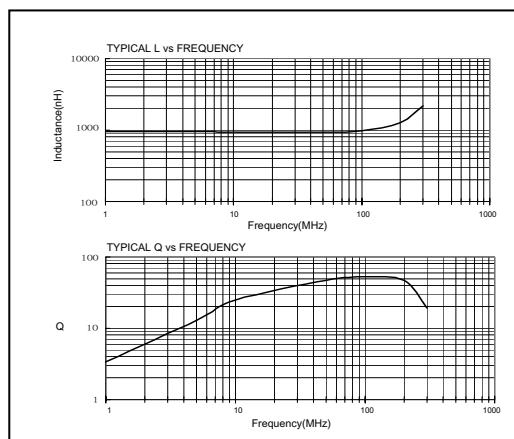
#### WTI-1008C-R47J



#### WTI-1008C-R68J



#### WTI-1008C-1R0J



#### WTI-1008C-3R3J

