

1. WTI Series (Ceramic Type)

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

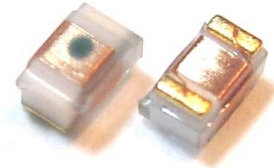
Range of Size: (0402(1005)~1008(2520))

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

HP4287A & 8753E - For "SRF"

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

Operating Temperature: -40 ~+125

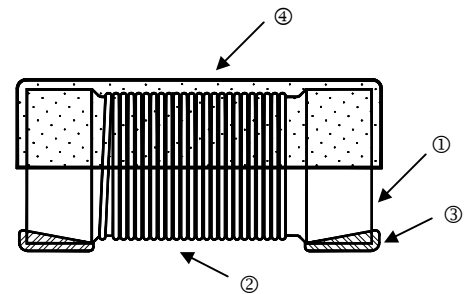


Applications

- > 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%.

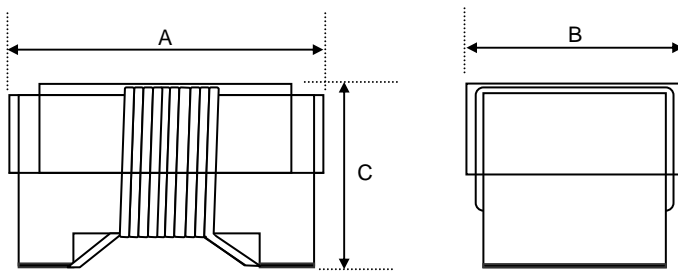


Construction

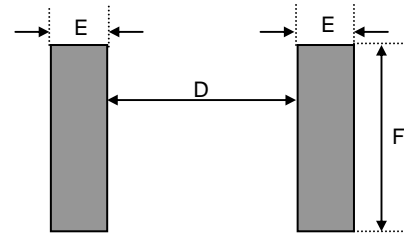
1. Ceramic Core
2. Wire
3. Electrode
4. UV Glue

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

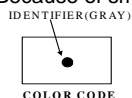
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

WTI-0402C Series

No Color Coding

WTI-0603C, WTI-0805C Series

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

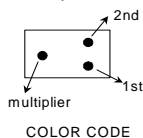


Ex : WTI-0805C-33NJ

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.

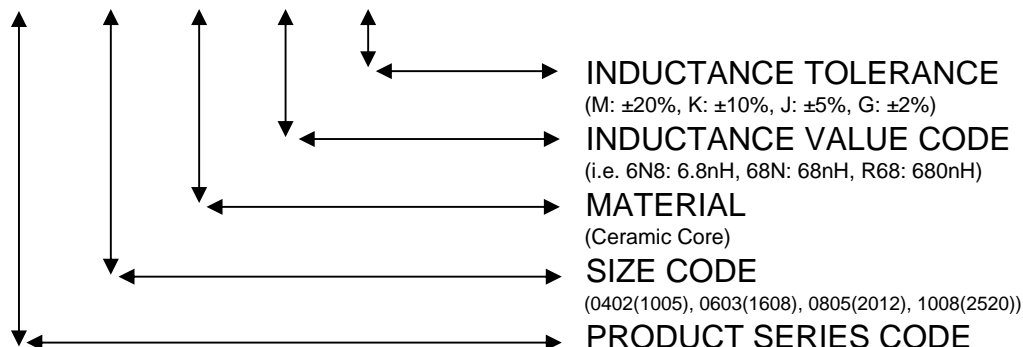
(DOT 1 : BROWN , DOT 2 : BLACK)

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

(DOT 3 : BLACK)

Part Numbering Systems

WTI- 0603 C - 68N J



(V) WIRE WOUND CHIP INDUCTORS

Tri-Tron

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Electrical Characteristics

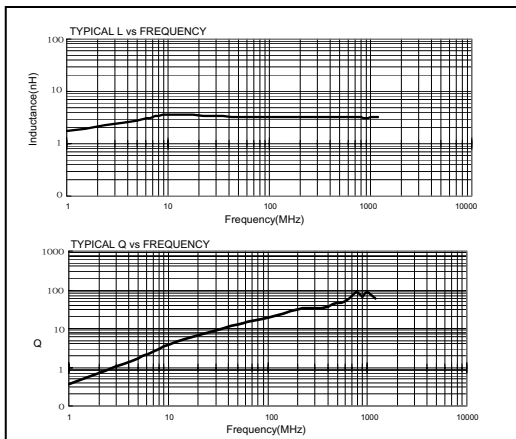
WTI-0603C Series Wire Wound Chip Inductors / UV Glue Cover Type

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR Ω (Max.)	Rated Current (mA)	Color Code
WTI-0603C-1N6	1.6 @ 250	K, J	24 @ 250	12.500	0.030	700	Black
WTI-0603C-1N8	1.8 @ 250	K, J	16 @ 250	12.500	0.045	700	Brown
WTI-0603C-2N1	2.1 @ 250	K, J	20 @ 250	5.800	0.050	700	Red
WTI-0603C-2N2	2.2 @ 250	K, J	20 @ 250	5.800	0.050	700	Orange
WTI-0603C-3N3	3.3 @ 250	K, J	20 @ 250	5.500	0.070	700	Violet
WTI-0603C-3N6	3.6 @ 250	K, J	22 @ 250	5.900	0.063	700	Red
WTI-0603C-3N9	3.9 @ 250	K, J	22 @ 250	6.900	0.080	700	Orange
WTI-0603C-4N3	4.3 @ 250	K, J	22 @ 250	5.900	0.063	700	Yellow
WTI-0603C-4N7	4.7 @ 250	K, J	20 @ 250	5.800	0.116	700	Green
WTI-0603C-5N1	5.1 @ 250	K, J	20 @ 250	5.700	0.140	700	Blue
WTI-0603C-5N6	5.6 @ 250	K, J, G	20 @ 250	5.800	0.150	700	Gray
WTI-0603C-6N1	6.1 @ 250	K, J, G	25 @ 250	5.800	0.110	700	White
WTI-0603C-6N8	6.8 @ 250	K, J, G	27 @ 250	5.800	0.110	700	Violet
WTI-0603C-7N5	7.5 @ 250	K, J, G	28 @ 250	4.800	0.106	700	Gray
WTI-0603C-8N2	8.2 @ 250	K, J, G	25 @ 250	5.800	0.120	700	Black
WTI-0603C-8N4	8.4 @ 250	K, J, G	28 @ 250	4.600	0.109	700	Red
WTI-0603C-8N5	8.5 @ 250	K, J, G	28 @ 250	4.600	0.109	700	Red
WTI-0603C-8N7	8.7 @ 250	J, G	28 @ 250	4.600	0.109	700	White
WTI-0603C-9N5	9.5 @ 250	J, G	28 @ 250	5.400	0.135	700	Black
WTI-0603C-10N	10 @ 250	J, G	31 @ 250	4.800	0.130	700	Brown
WTI-0603C-11N	11 @ 250	J, G	33 @ 250	4.000	0.086	700	Red
WTI-0603C-12N	12 @ 250	J, G	35 @ 250	4.000	0.130	700	Orange
WTI-0603C-14N	14 @ 250	J, G	35 @ 250	4.000	0.170	700	Brown
WTI-0603C-15N	15 @ 250	J, G	35 @ 250	4.000	0.170	700	Yellow
WTI-0603C-16N	16 @ 250	J, G	34 @ 250	3.300	0.104	700	Green
WTI-0603C-18N	18 @ 250	J, G	35 @ 250	3.100	0.170	700	Blue
WTI-0603C-22N	22 @ 250	J, G	38 @ 250	3.000	0.190	700	Violet
WTI-0603C-24N	24 @ 250	J, G	37 @ 250	2.650	0.135	700	Gary
WTI-0603C-27N	27 @ 250	J, G	40 @ 250	2.800	0.220	600	White
WTI-0603C-30N	30 @ 250	J, G	37 @ 250	2.250	0.144	600	Black
WTI-0603C-33N	33 @ 250	J, G	40 @ 250	2.300	0.220	600	Brown
WTI-0603C-36N	36 @ 250	J, G	38 @ 250	2.080	0.250	600	Red
WTI-0603C-39N	39 @ 250	J, G	40 @ 250	2.200	0.250	600	Orange
WTI-0603C-43N	43 @ 250	J, G	39 @ 250	2.000	0.280	600	Yellow
WTI-0603C-47N	47 @ 200	J, G	38 @ 200	2.000	0.280	600	Green
WTI-0603C-56N	56 @ 200	J, G	38 @ 200	1.900	0.310	600	Blue
WTI-0603C-68N	68 @ 200	J, G	37 @ 200	1.700	0.340	600	Violet
WTI-0603C-72N	72 @ 150	J, G	34 @ 150	1.700	0.490	400	Gray
WTI-0603C-82N	82 @ 150	J, G	34 @ 150	1.700	0.540	400	White
WTI-0603C-R10	100 @ 150	J, G	34 @ 150	1.400	0.580	400	Black
WTI-0603C-R11	110 @ 150	J, G	32 @ 150	1.350	0.610	300	Brown
WTI-0603C-R12	120 @ 150	J, G	32 @ 150	1.300	0.650	300	Red
WTI-0603C-R15	150 @ 150	J, G	28 @ 150	0.990	0.920	280	Orange
WTI-0603C-R18	180 @ 100	J, G	25 @ 100	0.990	1.250	240	Yellow
WTI-0603C-R22	220 @ 100	J, G	25 @ 100	0.900	1.900	200	Green
WTI-0603C-R27	270 @ 100	J, G	24 @ 100	0.900	2.300	170	Blue
WTI-0603C-R33	330 @ 100	J, G	24 @ 100	0.900	3.900	185	Violet
WTI-0603C-R39	390 @ 100	J, G	24 @ 100	0.900	4.350	100	Gray

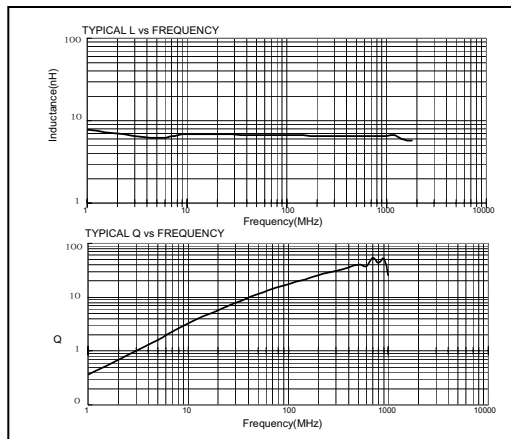
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Rating Curves

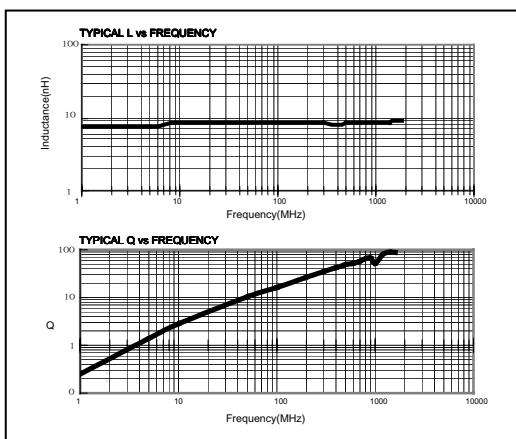
WTI-0603C-3N3J



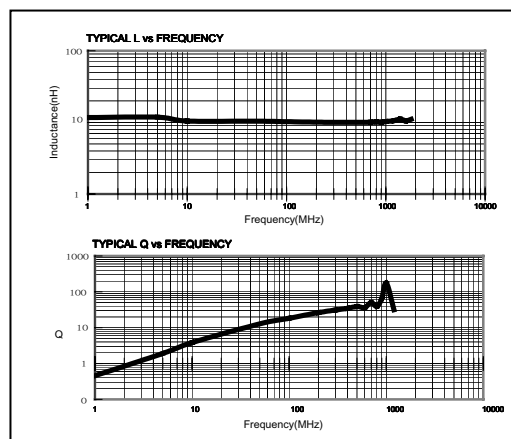
WTI-0603C-6N8J



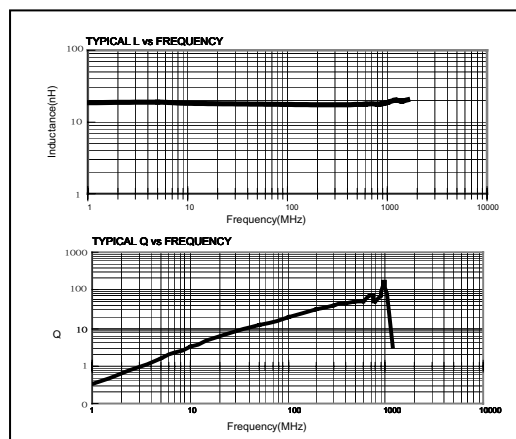
WTI-0603C-8N2J



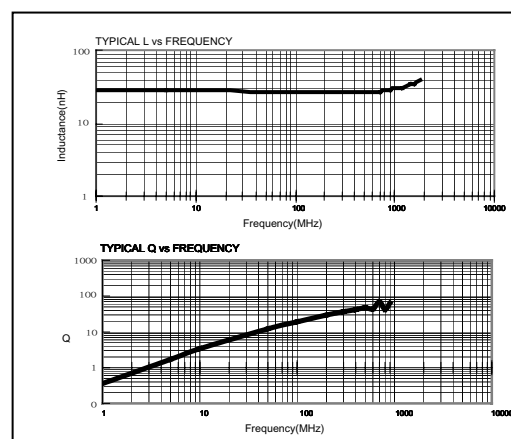
WTI-0603C-10NJ



WTI-0603C-18NJ



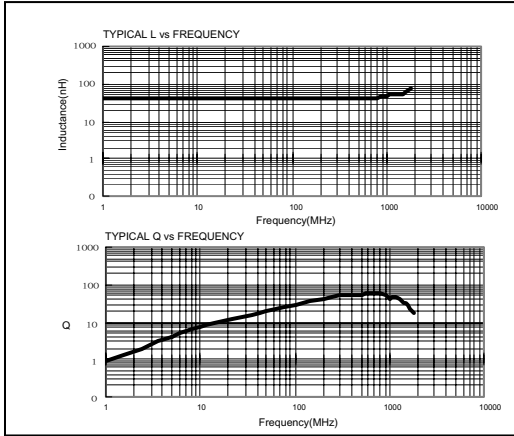
WTI-0603C-27NJ



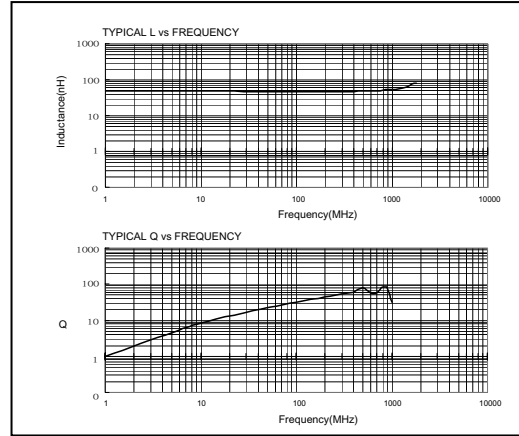
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Rating Curves (Cont'd)

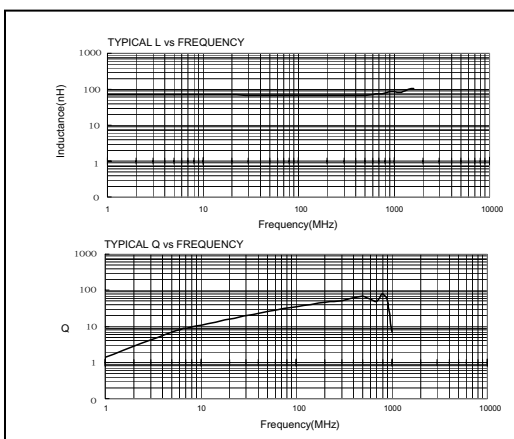
WTI-0603C-39NJ



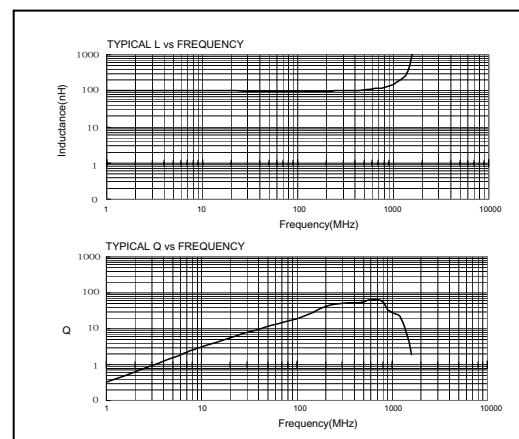
WTI-0603C-47NJ



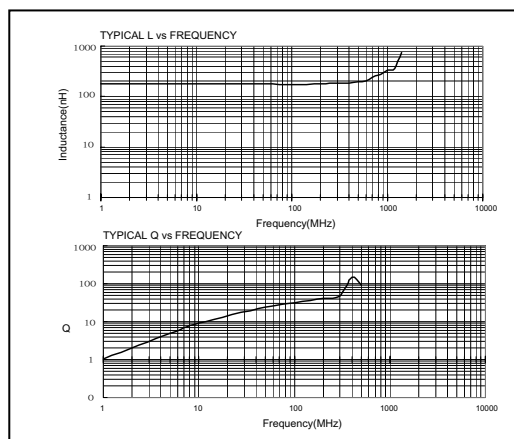
WTI-0603C-68NJ



WTI-0603C-R10J



WTI-0603C-R18J



WTI-0603C-R39J

