

1. WTI Series (Ceramic Type)

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

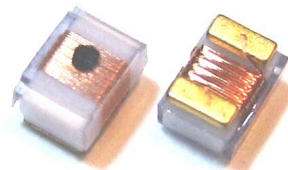
Range of Size: (0402(1005)~1008(2520))

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

HP4287A & 8753E - For "SRF"

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

Operating Temperature: -40 ~+125

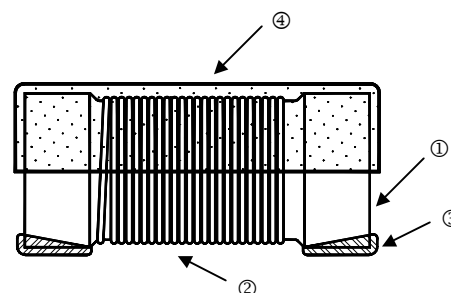


Applications

- > 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%.

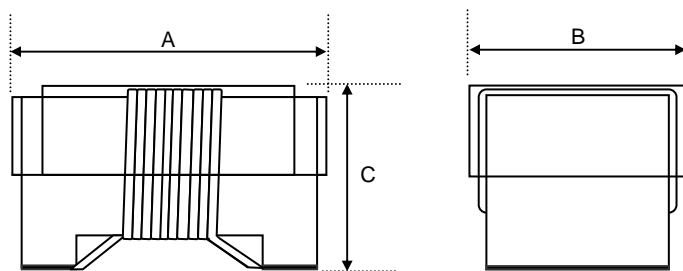


Construction

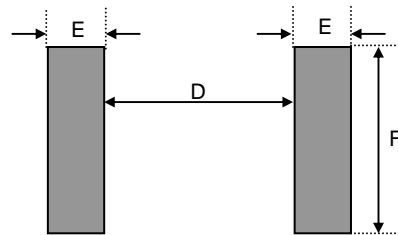
1. Ceramic Core
2. Wire
3. Electrode
4. UV Glue

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

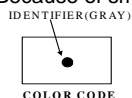
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

WTI-0402C Series

No Color Coding

WTI-0603C, WTI-0805C Series

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

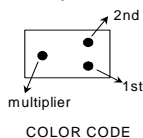


Ex : WTI-0805C-33NJ

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.

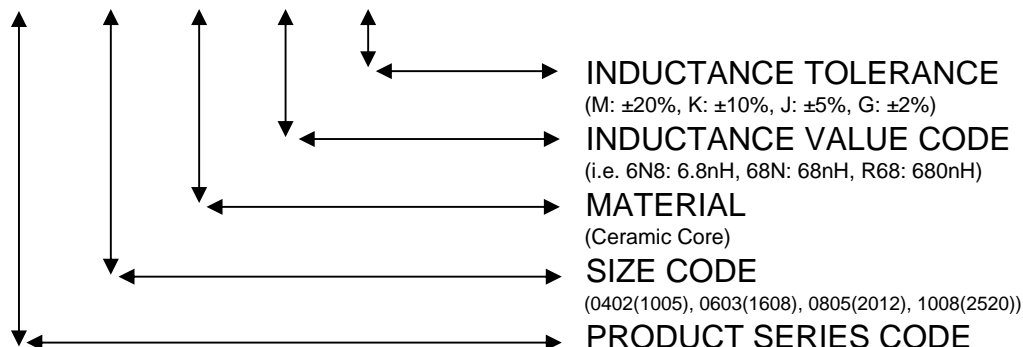
(DOT 1 : BROWN , DOT 2 : BLACK)

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

(DOT 3 : BLACK)

Part Numbering Systems

WTI- 0805 C - 68N J



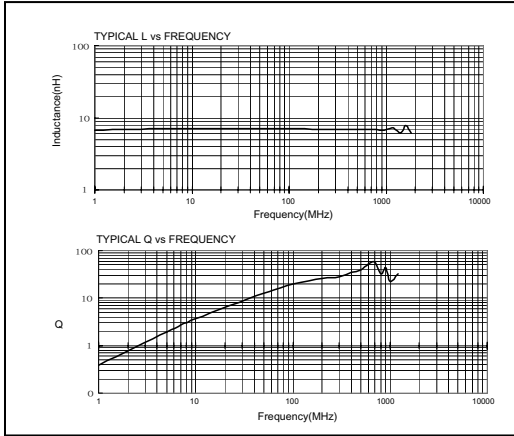
1(b). WTI Series (UV glue cover) (Size: 0402(1005)~1008(2520))**Electrical Characteristics****WTI-0805C Series Wire Wound Chip Inductors / UV Glue Cover Type**

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR (Max.)	Rated Current (mA)	Color Code
WTI-0805C-2N7	2.7 @ 250	K, J	35 @ 1000	6.000	0.080	600	Brown
WTI-0805C-3N3	3.3 @ 250	K, J	50 @ 1500	7.900	0.080	600	Black
WTI-0805C-5N6	5.6 @ 250	K, J	65 @ 1000	5.500	0.080	600	Violet
WTI-0805C-6N8	6.8 @ 250	K, J	50 @ 1000	5.500	0.110	600	Brown
WTI-0805C-8N2	8.2 @ 250	K, J, G	50 @ 1000	4.700	0.120	600	Red
WTI-0805C-10N	10 @ 250	K, J, G	60 @ 500	4.200	0.100	600	Red
WTI-0805C-12N	12 @ 250	K, J, G	45 @ 500	4.000	0.150	600	Orange
WTI-0805C-15N	15 @ 250	K, J, G	50 @ 500	3.400	0.170	600	Yellow
WTI-0805C-18N	18 @ 250	K, J, G	50 @ 500	3.300	0.200	600	Green
WTI-0805C-22N	22 @ 250	K, J, G	55 @ 500	2.600	0.220	500	Blue
WTI-0805C-24N	24 @ 250	K, J, G	50 @ 500	2.000	0.220	500	Red
WTI-0805C-27N	27 @ 250	K, J, G	55 @ 500	2.500	0.250	500	Violet
WTI-0805C-33N	33 @ 250	K, J, G	60 @ 500	2.050	0.270	500	Gray
WTI-0805C-39N	39 @ 250	K, J, G	60 @ 500	2.000	0.290	500	White
WTI-0805C-47N	47 @ 200	K, J, G	60 @ 500	1.650	0.310	500	Black
WTI-0805C-56N	56 @ 200	K, J, G	60 @ 500	1.550	0.340	500	Brown
WTI-0805C-68N	68 @ 200	K, J, G	60 @ 500	1.450	0.380	500	Red
WTI-0805C-82N	82 @ 150	K, J, G	65 @ 500	1.300	0.420	400	Orange
WTI-0805C-R10	100 @ 150	K, J, G	65 @ 500	1.200	0.460	400	Yellow
WTI-0805C-R11	110 @ 150	K, J, G	50 @ 500	1.100	0.480	400	Violet
WTI-0805C-R12	120 @ 150	K, J, G	50 @ 250	1.100	0.510	400	Green
WTI-0805C-R15	150 @ 100	K, J, G	50 @ 250	0.920	0.560	400	Blue
WTI-0805C-R18	180 @ 100	K, J, G	50 @ 250	0.870	0.640	400	Violet
WTI-0805C-R22	220 @ 100	K, J, G	50 @ 250	0.850	0.700	400	Gray
WTI-0805C-R24	240 @ 100	K, J, G	44 @ 250	0.690	1.000	350	Black
WTI-0805C-R27	270 @ 100	K, J, G	48 @ 250	0.650	1.000	350	White
WTI-0805C-R30	300 @ 150	K, J, G	25 @ 250	0.600	1.400	300	Gray
WTI-0805C-R33	330 @ 100	K, J, G	48 @ 250	0.600	1.400	310	Black
WTI-0805C-R36	360 @ 100	K, J, G	35 @ 250	0.460	0.900	300	Orange
WTI-0805C-R39	390 @ 150	K, J, G	48 @ 250	0.560	1.500	290	Brown
WTI-0805C-R43	430 @ 100	K, J, G	25 @ 100	0.400	1.700	190	White
WTI-0805C-R47	470 @ 50	K, J, G	33 @ 100	0.375	1.760	250	Violet
WTI-0805C-R56	560 @ 25	K, J, G	23 @ 50	0.340	1.900	230	Orange
WTI-0805C-R68	680 @ 25	K, J, G	23 @ 50	0.188	2.200	190	Green
WTI-0805C-R82	820 @ 25	K, J, G	23 @ 50	0.215	2.350	180	Brown
WTI-0805C-1R0	1000 @ 25	K, J, G	23 @ 25	0.260	2.700	170	Black
WTI-0805C-1R2	1200 @ 7.9	K, J, G	18 @ 25	0.100	2.500	170	White
WTI-0805C-1R5	1500 @ 7.9	K, J, G	16 @ 25	0.100	2.500	170	Black
WTI-0805C-1R8	1800 @ 7.9	K, J, G	16 @ 7.9	0.080	2.500	170	Brown
WTI-0805C-2R2	2200 @ 7.9	K, J, G	16 @ 7.9	0.060	2.700	160	Red
WTI-0805C-2R7	2700 @ 7.9	K, J, G	16 @ 7.9	0.050	3.100	150	Orange
WTI-0805C-3R3	3300 @ 7.9	K, J, G	15 @ 7.9	0.040	4.400	90	Blue
WTI-0805C-4R7	4700 @ 7.9	K, J, G	15 @ 7.9	0.040	6.400	90	Green

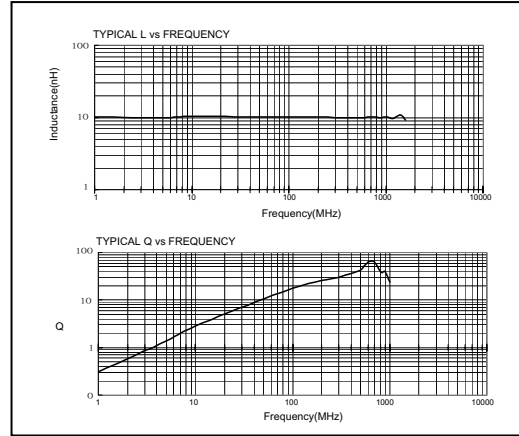
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Rating Curves

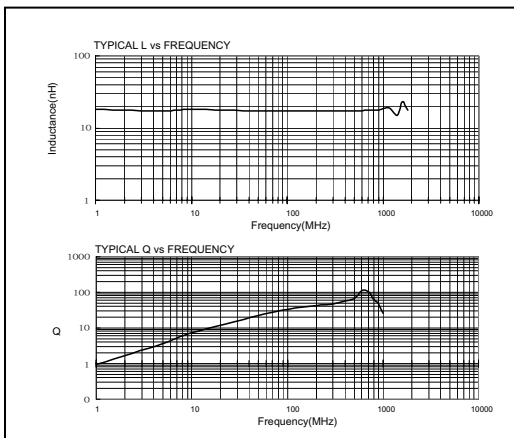
WTI-0805C-6N8J



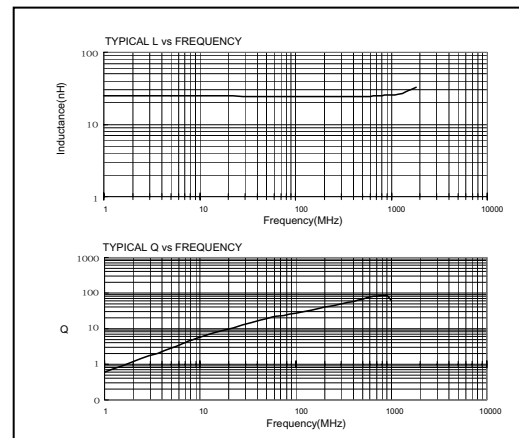
WTI-0805C-10NJ



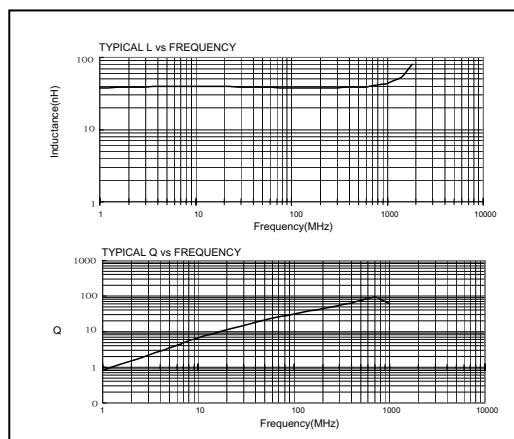
WTI-0805C-18NJ



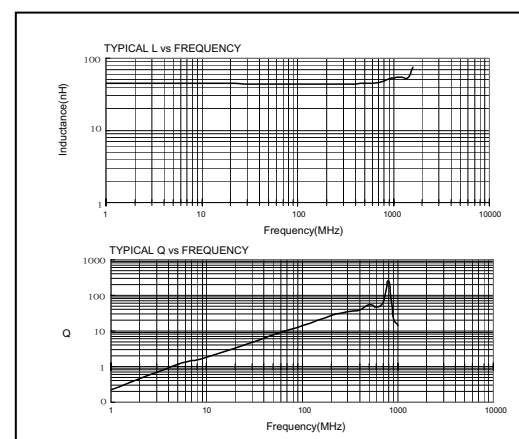
WTI-0805C-24NJ



WTI-0805C-39NJ



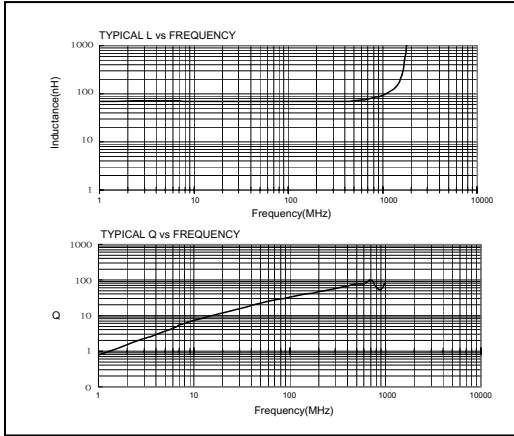
WTI-0805C-47NJ



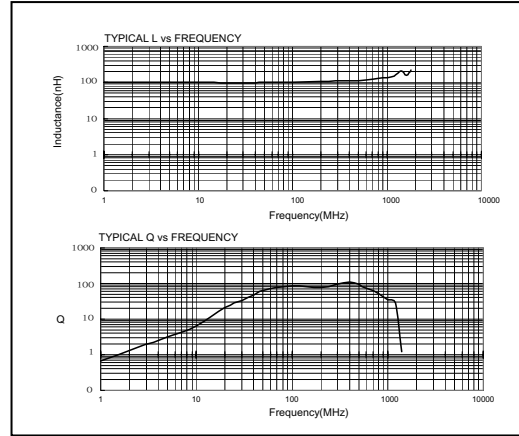
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Rating Curves (Cont'd)

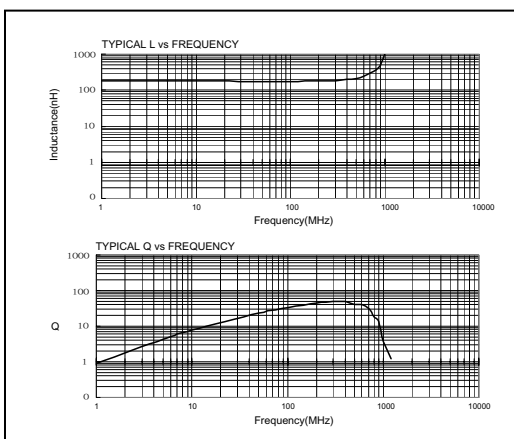
WTI-0805C-68NJ



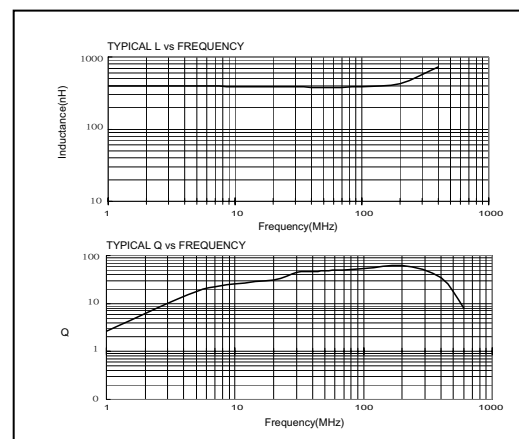
WTI-0805C-R10J



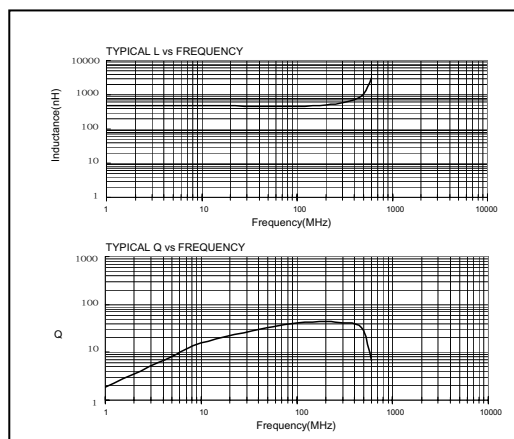
WTI-0805C-R18J



WTI-0805C-R39J



WTI-0805C-R47J



WTI-0805C-R82J

