

1. WTI Series (Ceramic Type)

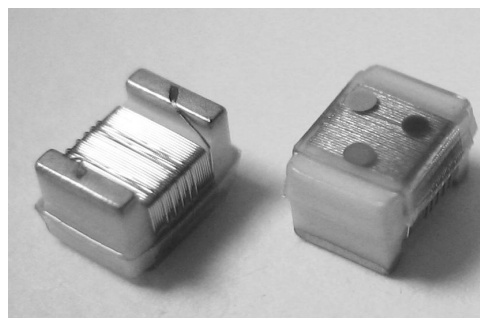
Range of Size: (0402(1005)~1210(3225))

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

HP4287A & 8753E - For "SRF"

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

Operating Temperature: -40 ~+125



Applications

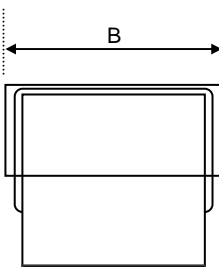
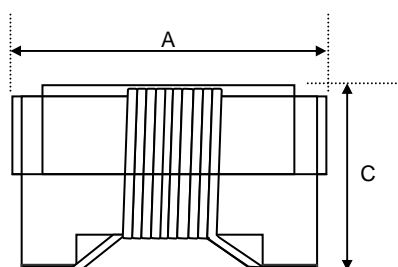
- > Cordless (DECT/CT1CT2) & Cellular (CDMA/GSM/PHS) Phone.
- > Remote control, wireless security system.
- > WLL, Wireless LAN / Mouse / Keyboard / Earphone.
- > GPS receiver.
- > VCO, RF Module & other wireless products.
- > CATV Filter, Tuner.
- > Cable Modem / XDSL Tuner.
- > Set Top Box.

Features

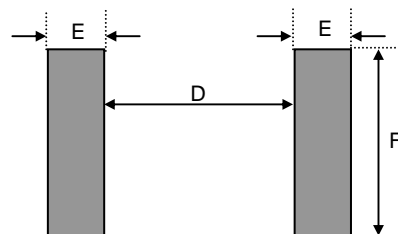
- > Wirewound ceramic construction provide high SRF.
- > Ultra compact inductors provide exceptional Q values.
- > Low Profile, high Q are available.
- > Outstanding endurance from Pull-up force, mechanical shock and pressure.
- > Smaller size of 0402(1005) & tighter tolerance down to +/- 2%.

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

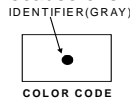
Color	Figures	Multiplier
Black	0	1
Brown	1	10
Red	2	100
Orange	3	1000
Yellow	4	10000
Green	5	-
Blue	6	-
Violet	7	-
Gray	8	-
White	9	-

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.

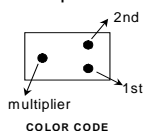


Ex : WTI-0805C-33NJ

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.

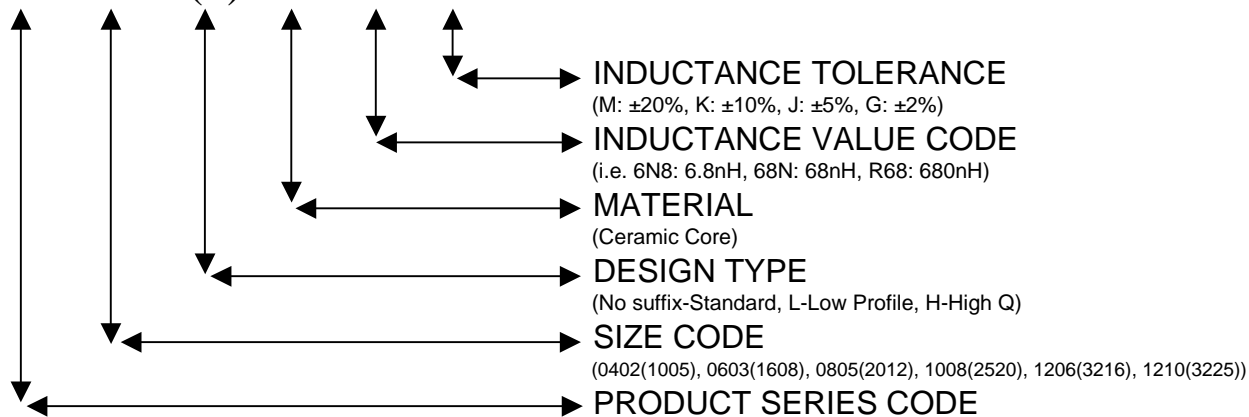
(DOT 1 : BROWN , DOT 2 : BLACK)

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

(DOT 3 : BLACK)

Part Numbering Systems

WTI-1206() C - 68N J



(IV) WIRE WOUND CHIP INDUCTORS

Tri-Tron

1(a). WTI Series (Standard Type) (Size: 1206 (3216))

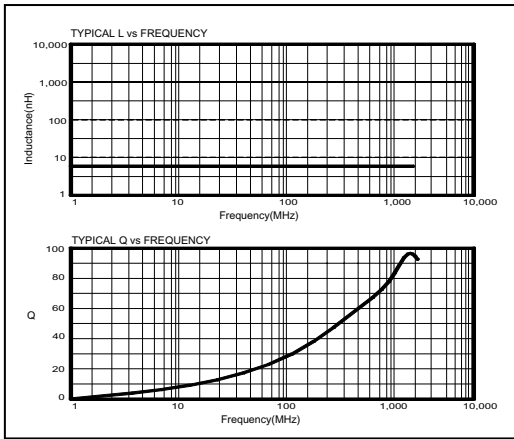
Electrical Characteristics

Part No.	L (nH) @ _MHz	Inductance Tolerance	Q (Min.) @ _MHz	SRF (Min.) (GHz)	DCR Ω (Max.)	Rated Current (mA)	Color Code
WTI-1206C-6N8	6.8 @ 100	K , J	30 @ 300	5.50	0.07	1000	Brown
WTI-1206C-10N	10.0 @ 100	K , J	40 @ 300	4.00	0.08	1000	Red
WTI-1206C-12N	12.0 @ 100	K , J	40 @ 300	3.20	0.08	1000	Orange
WTI-1206C-15N	15.0 @ 100	K , J	40 @ 300	3.20	0.10	1000	Yellow
WTI-1206C-18N	18.0 @ 100	K , J	50 @ 300	2.80	0.10	1000	Green
WTI-1206C-22N	22.0 @ 100	K , J	50 @ 300	2.20	0.10	1000	Blue
WTI-1206C-24N	24.0 @ 100	K , J	50 @ 300	2.00	0.10	1000	Red
WTI-1206C-27N	27.0 @ 100	K , J , G	50 @ 300	1.80	0.11	1000	Violet
WTI-1206C-33N	33.0 @ 100	K , J , G	55 @ 300	1.80	0.11	1000	Gray
WTI-1206C-39N	39.0 @ 100	K , J , G	55 @ 300	1.80	0.12	1000	White
WTI-1206C-47N	47.0 @ 100	K , J , G	55 @ 300	1.50	0.13	1000	Black
WTI-1206C-56N	56.0 @ 100	K , J , G	55 @ 300	1.45	0.14	1000	Brown
WTI-1206C-62N	62.0 @ 100	K , J , G	55 @ 300	1.20	0.20	1000	Violet
WTI-1206C-68N	68.0 @ 100	K , J , G	55 @ 300	1.20	0.26	950	Red
WTI-1206C-82N	82.0 @ 100	K , J , G	55 @ 300	1.20	0.21	920	Orange
WTI-1206C-91N	91.0 @ 100	K , J , G	55 @ 300	1.10	0.24	900	White
WTI-1206C-R10	100 @ 100	K , J , G	55 @ 300	1.10	0.26	850	Yellow
WTI-1206C-R12	120 @ 100	K , J , G	55 @ 300	0.75	0.26	800	Green
WTI-1206C-R15	150 @ 100	K , J , G	60 @ 300	0.95	0.31	750	Blue
WTI-1206C-R18	180 @ 50	K , J , G	55 @ 300	0.90	0.43	700	Violet
WTI-1206C-R22	220 @ 50	K , J , G	55 @ 300	0.76	0.50	670	Gray
WTI-1206C-R27	270 @ 50	K , J , G	55 @ 300	0.74	0.56	630	White
WTI-1206C-R30	300 @ 50	K , J , G	50 @ 150	0.68	0.60	600	Green
WTI-1206C-R33	330 @ 50	K , J , G	45 @ 150	0.65	0.62	590	Black
WTI-1206C-R36	360 @ 50	K , J , G	45 @ 150	0.60	0.65	550	Blue
WTI-1206C-R39	390 @ 50	K , J , G	45 @ 150	0.60	0.75	530	Brown
WTI-1206C-R47	470 @ 50	K , J , G	45 @ 150	0.55	1.30	490	Red
WTI-1206C-R56	560 @ 35	K , J , G	45 @ 150	0.47	1.34	460	Orange
WTI-1206C-R62	620 @ 35	K , J , G	45 @ 150	0.47	1.58	460	Gray
WTI-1206C-R68	680 @ 35	K , J , G	45 @ 150	0.45	1.58	430	Yellow
WTI-1206C-R75	750 @ 35	K , J , G	45 @ 150	0.44	2.25	320	White
WTI-1206C-R82	820 @ 35	K , J , G	45 @ 150	0.42	1.82	400	Green
WTI-1206C-R91	910 @ 35	K , J , G	45 @ 150	0.41	2.95	310	Green
WTI-1206C-1R0	1000 @ 35	K , J , G	45 @ 150	0.40	2.80	320	Blue
WTI-1206C-1R2	1200 @ 35	K , J , G	45 @ 150	0.38	3.20	300	Violet

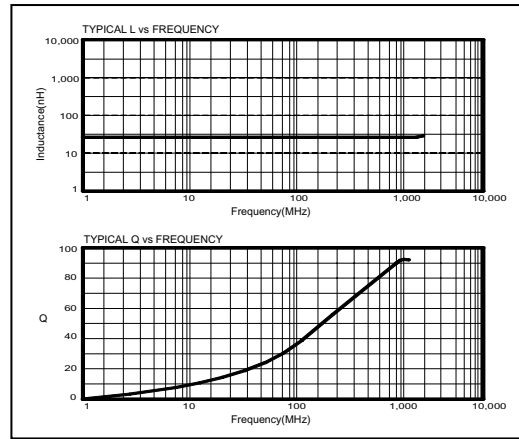
1(a). WTI Series (Standard Type) (Size: 1206 (3216))

Rating Curves

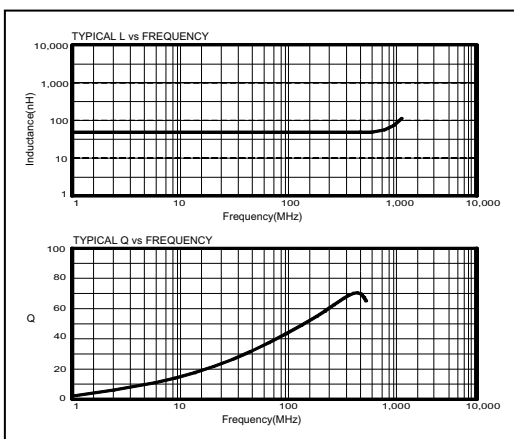
WTI-1206C-6N8J



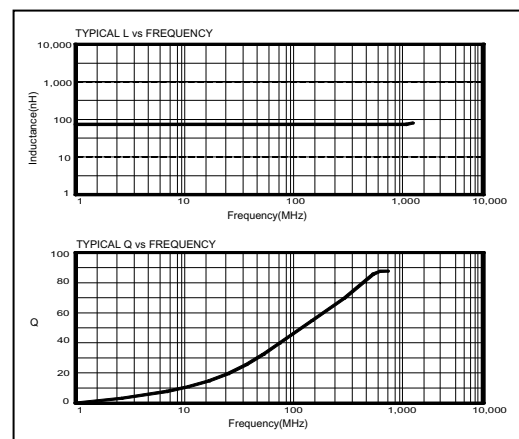
WTI-1206C-39NJ



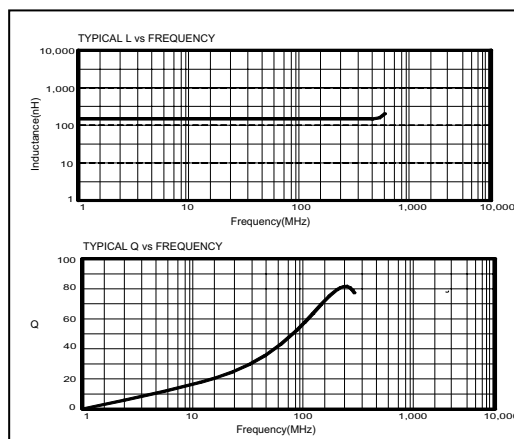
WTI-1206C-68NJ



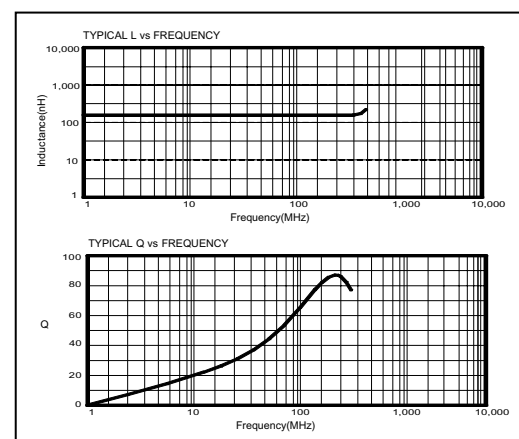
WTI-1206C-82NJ



WTI-1206C-R22J



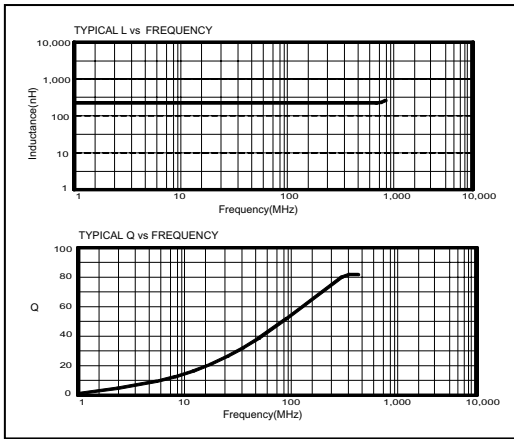
WTI-1206C-R27J



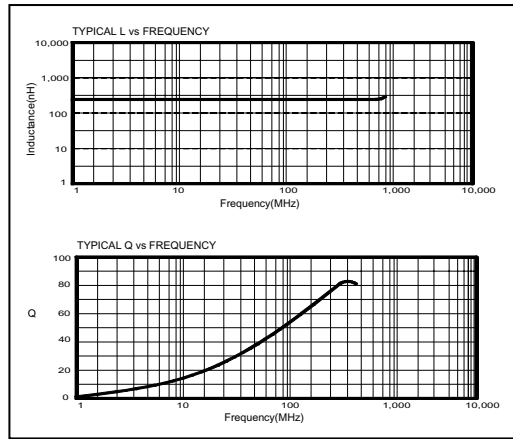
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Rating Curves (Cont'd)

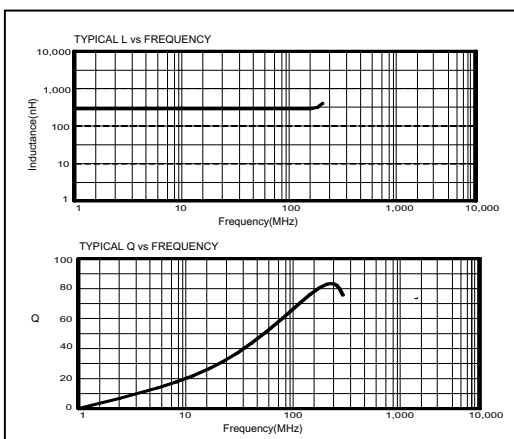
WTI-1206C-R33J



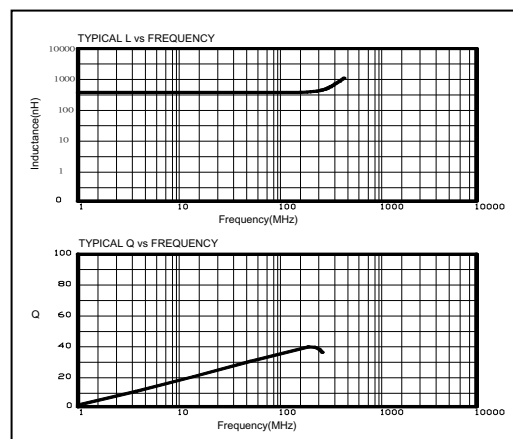
WTI-1206C-R36J



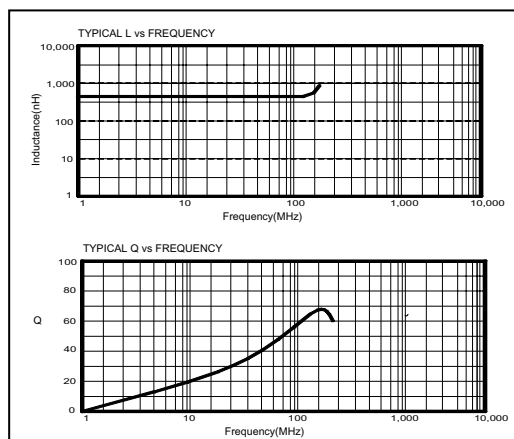
WTI-1206C-R47J



WTI-1206C-R56J



WTI-1206C-R62J



WTI-1206C-R82J

