

◆ Feature

- 1.Particular ceramic material and coil structure provide high frequency application range up to 10GHz
- 2.High Q at high frequency
- 3.Small size and low profile
- 4.Available in various sizes
- 5.Excellent solderability and resistance

◆ Application

RF and wireless communication, information technology equipment which includes computer, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, PDAs, keyless remote system and low-voltage power supply modules.



◆ How to Order

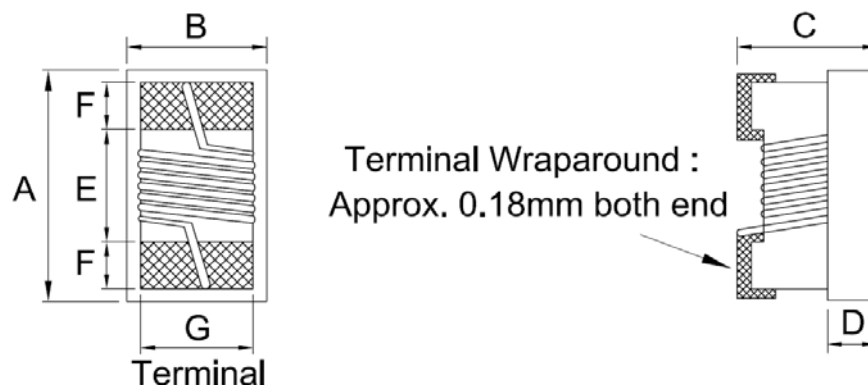
WCI 1005 : 1NO J
 (1) (2) (3) (4)

- (1) Series Name
- (2) Size Code: the first two digitals: length (mm),
the last two digitals: width (mm)
- (3) Inductance (N=decimal point), unit: nH
- (4) Tolerance: J=±5%, K= ±10%

◆ Dimension

Unit: mm

TYPE	A(Max.)	B(Max.)	C(Max.)	D	E	F	G
1005 (0402)	1.19 ⁺⁰	0.70 ⁺⁰	0.66 ⁺⁰	0.25 ref.	0.56	0.23	0.51



◆ Specification

Part Number	Inductance (nH)	Q Min.	L / Q Test Freq. (MHz)	S.R.F. (MHz) Min.	DCR (Ω) Max.	Irms (mA)Max.	Tolerance ($\pm\%$)
1005(0402)							
WCI1005-1N0_	1.0	16	250/250	12700	0.045	1360	10.5
WCI1005-1N9_	1.9	16	250/250	11300	0.07	1040	10.5
WCI1005-2N0_	2.0	16	250/250	11100	0.07	1040	10.5
WCI1005-2N2_	2.2	19	250/250	10800	0.07	960	10.5
WCI1005-2N4_	2.4	15	250/250	10500	0.068	790	10.5
WCI1005-2N7_	2.7	16	250/250	10400	0.12	640	10.5
WCI1005-3N3_	3.3	19	250/250	7000	0.066	840	10.5
WCI1005-3N6_	3.6	19	250/250	6800	0.066	840	10.5
WCI1005-3N9_	3.9	19	250/250	6000	0.066	840	10.5
WCI1005-4N3_	4.3	18	250/250	6000	0.091	700	10.5
WCI1005-4N7_	4.7	15	250/250	4770	0.13	640	10.5
WCI1005-5N1_	5.1	20	250/250	4800	0.083	800	10.5
WCI1005-5N6_	5.6	20	250/250	4800	0.083	760	10.5
WCI1005-6N2_	6.2	20	250/250	4800	0.083	760	10.5
WCI1005-6N8_	6.8	20	250/250	4800	0.083	680	10.5
WCI1005-7N5_	7.5	22	250/250	4800	0.1	680	10.5
WCI1005-8N2_	8.2	22	250/250	4400	0.1	680	10.5
WCI1005-8N7_	8.7	18	250/250	4100	0.2	480	10.5
WCI1005-9N0_	9.0	22	250/250	4160	0.1	680	10.5
WCI1005-9N1_	9.1	22	250/250	4160	0.1	680	10.5
WCI1005-9N5_	9.5	18	250/250	4000	0.2	480	10.5
WCI1005-10N_	10	21	250/250	3900	0.2	480	10.5
WCI1005-11N_	11	24	250/250	3680	0.12	640	10.5
WCI1005-12N_	12	24	250/250	3600	0.12	640	10.5
WCI1005-13N_	13	24	250/250	3450	0.21	440	10.5
WCI1005-15N_	15	24	250/250	3280	0.17	560	10.5
WCI1005-16N_	16	24	250/250	3100	0.22	560	10.5
WCI1005-18N_	18	25	250/250	3100	0.23	420	10.5
WCI1005-19N_	19	24	250/250	3040	0.2	480	10.5
WCI1005-20N_	20	25	250/250	3000	0.25	420	10.5
WCI1005-22N_	22	25	250/250	2800	0.3	400	10.5
WCI1005-23N_	23	22	250/250	2720	0.3	400	10.5
WCI1005-24N_	24	25	250/250	2700	0.3	400	10.5
WCI1005-27N_	27	24	250/250	2480	0.3	400	10.5

◆ Specification

Part Number	Inductance (nH)	Q Min.	L / Q Test Freq. (MHz)	S.R.F. (MHz) Min.	DCR (Ω) Max.	Irms (mA)Max.	Tolerance ($\pm\%$)
WCI1005-30N_	30	25	250/250	2350	0.35	400	10.5
WCI1005-33N_	33	24	250/250	2350	0.4	400	10.5
WCI1005-36N_	36	24	250/250	2320	0.44	320	10.5
WCI1005-39N_	39	25	250/250	2100	0.55	200	10.5
WCI1005-40N_	40	24	250/250	2240	0.44	320	10.5
WCI1005-43N_	43	25	250/250	2030	0.81	100	10.5
WCI1005-47N_	47	20	250/250	2100	0.83	150	10.5
WCI1005-51N_	51	25	250/250	1750	0.82	100	10.5
WCI1005-56N_	56	22	250/250	1760	0.97	100	10.5
WCI1005-68N_	68	22	250/250	1620	1.12	100	10.5
WCI1005-82N_	82	20	250/250	1260	1.55	50	10.5
WCI1005-R10_	100	20	250/250	1160	2	30	10.5
Test Instruments	<ul style="list-style-type: none"> • Agilent/HP 4291A+ Agilent/HP 16197A for L, Q • Agilent/HP 8753D / Agilent/HP 8722ES for SRF • CH502BC/HP4338B for DCR • I rms for 15°C rise above 25°C ambient • OSC test level: 200 mV 						

◆ General Technical Data

Operating Temperature Range	- 40°C ~ +125°C
Storage Condition	20°C ~ 25°C and 65% RH (For Reference)

◆ Package

Size (EIA)	1005 (0402)
Standard Packing Quantity (pcs / reel)	10,000