RoHS

◆ Features

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

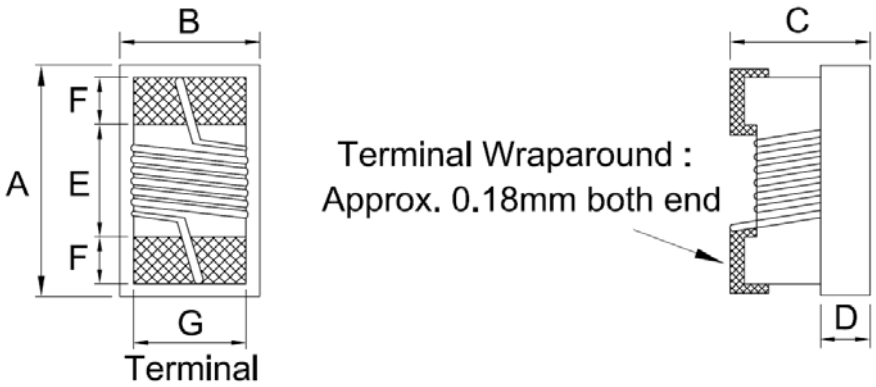
WCI	1005	-	1NO	J
(1)	(2)		(3)	(4)

(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%

◆ Dimensions

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
1608 (0603)	$1.6^{+0.2}_{-0.1}$	1.02±0.1	$0.82^{+0.2}_{-0.1}$	0.38	0.76	0.33	0.86
2012 (0805)	2.35^{+0}	1.73^{+0}	1.52^{+0}	0.51	1.27	0.51	1.02



◆ Specifications

Part Number	Inductance (nH)	Q Min.	L / Q Test Freq. (MHz)	S.R.F. (MHz) Min.	DCR (Ω) Max.	Irms (mA)Max.	Tolerance (±%)
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

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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
1608(0603)							
WCI1608-1N6_	1.6	24	250/250	12500	0.03	700	10.5
WCI1608-1N8_	1.8	16	250/250	12500	0.045	700	10.5
WCI1608-2N2_	2.2	13	250/250	12500	0.25	100	10.5
WCI1608-3N3_	3.3	35	250/250	5900	0.045	700	10.5
WCI1608-3N6_	3.6	22	250/250	5900	0.063	700	10.5
WCI1608-3N9_	3.9	22	250/250	6900	0.08	700	10.5
WCI1608-4N3_	4.3	22	250/250	5900	0.063	700	10.5
WCI1608-4N7_	4.7	20	250/250	5800	0.116	700	10.5
WCI1608-5N1_	5.1	20	250/250	5700	0.14	700	10.5
WCI1608-5N6_	5.6	20	250/250	5800	0.17	700	10.5
WCI1608-6N3_	6.3	20	250/250	5700	0.14	700	10.5
WCI1608-6N8_	6.8	27	250/250	5800	0.11	700	10.5
WCI1608-7N5_	7.5	28	250/250	4800	0.106	700	10.5
WCI1608-8N2_	8.2	28	250/250	4700	0.109	700	10.5
WCI1608-8N7_	8.7	28	250/250	4600	0.109	700	10.5
WCI1608-9N5_	9.5	28	250/250	5400	0.135	700	10.5
WCI1608-10N_	10	31	250/250	4800	0.13	700	10.5
WCI1608-11N_	11	33	250/250	4000	0.086	700	10.5
WCI1608-12N_	12	35	250/250	4000	0.13	700	10.5
WCI1608-15N_	15	35	250/250	4000	0.17	700	10.5
WCI1608-16N_	16	34	250/250	3300	0.104	700	10.5
WCI1608-18N_	18	35	250/250	3100	0.17	700	10.5

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Part Number	Inductance (nH)	Q Min.	L / Q Test Freq. (MHz)	S.R.F. (MHz) Min.	DCR (Ω) Max.	Irms (mA)Max.	Tolerance (±%)
WCI1608-22N_	22	38	250/250	3000	0.19	700	10.5
WCI1608-24N_	24	37	250/250	2650	0.135	700	10.5
WCI1608-27N_	27	40	250/250	2800	0.22	600	10.5
WCI1608-30N_	30	37	250/250	2250	0.144	600	10.5
WCI1608-33N_	33	40	250/250	2300	0.22	600	10.5
WCI1608-36N_	36	38	250/250	2080	0.25	600	10.5
WCI1608-39N_	39	40	250/250	2200	0.25	600	10.5
WCI1608-43N_	43	39	250/250	2000	0.28	600	10.5
WCI1608-47N_	47	38	200/200	2000	0.28	600	10.5
WCI1608-51N_	51	38	200/200	1900	0.31	600	10.5
WCI1608-56N_	56	38	200/200	1900	0.31	600	10.5
WCI1608-68N_	68	37	200/200	1700	0.34	600	10.5
WCI1608-72N_	72	34	150/150	1700	0.49	400	10.5
WCI1608-82N_	82	34	150/150	1700	0.54	400	10.5
WCI1608-91N_	91	34	150/150	1400	0.58	400	10.5
WCI1608-R10_	100	34	150/150	1400	0.58	400	10.5
WCI1608-R11_	110	32	150/150	1350	0.61	300	10.5
WCI1608-R12_	120	32	150/150	1300	0.75	300	10.5
WCI1608-R15_	150	28	150/150	990	0.92	280	10.5
WCI1608-R16_	160	25	100/100	990	1.25	240	10.5
WCI1608-R18_	180	25	100/100	990	1.25	240	10.5
WCI1608-R22_	220	25	100/100	900	2.1	200	10.5
WCI1608-R27_	270	24	100/100	900	2.8	170	10.5
WCI1608-R33_	330	25	100/100	900	3.89	100	10.5
WCI1608-R39_	390	25	100/100	700	4.35	100	10.5
WCI1608-R47_	470	25	100/100	500	4.5	100	10.5
WCI1608-R56_	560	23	100/100	460	4.7	90	10.5
2012(0805)							
WCI2012-2N8_	2.8	80	250/1500	7900	0.06	800	10.5
WCI2012-3N0_	3.0	65	250/1500	7900	0.06	800	10.5
WCI2012-3N3_	3.3	50	250/1500	7900	0.08	600	10.5
WCI2012-5N6_	5.6	65	250/1000	5500	0.08	600	10.5
WCI2012-6N8_	6.8	50	250/1000	5500	0.11	600	10.5
WCI2012-7N5_	7.5	50	250/1000	4500	0.14	600	10.5
WCI2012-8N2_	8.2	50	250/1000	4700	0.12	600	10.5

◆ Specifications

Part Number	Inductance (nH)	Q Min.	L / Q Test Freq. (MHz)	S.R.F. (MHz) Min.	DCR (Ω) Max.	Irms (mA)Max.	Tolerance (±%)
WCI2012-10N_	10	60	250/500	4200	0.1	600	10.5
WCI2012-12N_	12	50	250/500	4000	0.15	600	10.5
WCI2012-15N_	15	50	250/500	3400	0.17	600	10.5
WCI2012-18N_	18	50	250/500	3300	0.2	600	10.5
WCI2012-22N_	22	55	250/500	2600	0.22	500	10.5
WCI2012-24N_	24	50	250/500	2000	0.22	500	10.5
WCI2012-27N_	27	55	250/500	2500	0.25	500	10.5
WCI2012-33N_	33	60	250/500	2050	0.27	500	10.5
WCI2012-36N_	36	55	250/500	1700	0.27	500	10.5
WCI2012-39N_	39	60	250/500	2000	0.29	500	10.5
WCI2012-43N_	43	60	200/500	1650	0.34	500	10.5
WCI2012-47N_	47	60	200/500	1650	0.31	500	10.5
WCI2012-56N_	56	60	200/500	1550	0.34	500	10.5
WCI2012-68N_	68	60	200/500	1450	0.38	500	10.5
WCI2012-82N_	82	65	150/500	1300	0.42	400	10.5
WCI2012-84N_	84	65	150/500	1300	0.48	400	10.5
WCI2012-91N_	91	65	150/500	1200	0.48	400	10.5
WCI2012-R10_	100	65	150/500	1200	0.46	400	10.5
WCI2012-R11_	110	50	150/250	1000	0.48	400	10.5
WCI2012-R12_	120	50	150/250	1100	0.51	400	10.5
WCI2012-R15_	150	50	100/250	920	0.56	400	10.5
WCI2012-R18_	180	50	100/250	870	0.64	400	10.5
WCI2012-R20_	200	50	100/250	860	0.68	400	10.5
WCI2012-R22_	220	50	100/250	850	0.7	400	10.5
WCI2012-R24_	240	44	100/250	690	1.0	350	10.5
WCI2012-R25_	250	45	100/250	660	1.2	350	10.5
WCI2012-R27_	270	45	100/250	650	1.0	350	10.5
WCI2012-R33_	330	48	100/250	600	1.4	310	10.5
WCI2012-R39_	390	48	100/250	560	1.5	290	10.5
WCI2012-R47_	470	33	50/100	375	1.76	250	10.5
WCI2012-R56_	560	23	25/50	340	1.9	230	10.5
WCI2012-R62_	620	23	25/50	220	2.2	210	10.5
WCI2012-R68_	680	23	25/50	188	2.2	190	10.5
WCI2012-R82_	820	23	25/50	215	2.35	180	10.5
WCI2012-1R0_	1000	20	25/50	100	2.5	170	10.5

◆ Specifications

Test Instruments	• Agilent/HP 4291A+ Agilent/HP 16197A for L, Q • Agilent/HP 8753D / Agilent/HP 8722ES for SRF • CH502BC/HP4338B for DCR • Irms for 15℃ rise above 25℃ ambient • OSC test level: 200 mV

◆ General Technical Data

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

◆ Package

Size (EIA)	1005 (0402)	1608 (0603)	2012 (0805)
Standard Packing Quantity (pcs / reel)	4000	4000	2000