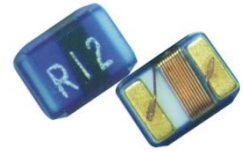


FEATURES

- Small chip suitable for surface mounting.
- Wire Wound Ceramic Type provides high SRF and Q value.
- Tight inductance tolerance and high reliability.
- Excellent solderability and heat resistance for reflow soldering.
- Operating temperature: -40°C ~ +85°C.



APPLICATIONS

- High frequency circuit in telecommunication and other equipments.
- Mobile phones such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5GNR, etc.
- Bluetooth, W-LAN, Broadband network.

PRODUCT IDENTIFICATION

WCI 1005 C 1N0 J T

(1) (2) (3) (4) (5) (6)

- (1) Series name
- (2) Product dimensions
- (3) Feature Type (C: Ceramic Type)
- (4) Inductance Value (1N0: 1.0nH, 10N: 10nH, R10: 100nH)
- (5) Inductance Tolerance (S: ±0.3nH, D: ±0.5nH, G: ±2%, J: ±5%, K: ±10%)
- (6) Package (T: Tape & Reel)

SHAPE AND DIMENSIONS



Unit:mm

Series	L Max.	W Max.	T Max.	E Typ.	F Typ.	D Typ.
WCI1005C	1.19	0.70	0.64	0.36	0.66	0.46
WCI1608C	1.80	1.12	0.95	0.64	1.02	0.64
WCI2012C	2.29	1.73	1.52	1.02	1.78	0.76
WCI2520C	2.92	2.70	2.23	1.02	2.54	1.27
WCI3225C	3.50	2.90	2.25	1.02	2.54	1.78

SPECIFICATIONS

WCI1005C Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (GHz)	DCR Max. (Ω)	Irms (mA)
WCI1005C1N0ST	1.0	±0.3nH	10	250	12.90	0.045	1360
WCI1005C1N3ST	1.3	±0.3nH	8	250	12.90	0.150	900
WCI1005C2N2ST	2.2	±0.3nH	22	250	10.80	0.090	960
WCI1005C2N7JT	2.7	5	12	250	10.40	0.170	200
WCI1005C3N3JT	3.3	5	24	250	7.00	0.076	840
WCI1005C3N6JT	3.6	5	24	250	6.00	0.076	790
WCI1005C3N9JT	3.9	5	24	250	6.00	0.076	840
WCI1005C4N7JT	4.7	5	20	250	4.77	0.130	640
WCI1005C5N6JT	5.6	5	25	250	4.80	0.110	760
WCI1005C6N2JT	6.2	5	25	250	8.00	0.090	700
WCI1005C6N8JT	6.8	5	24	250	4.80	0.120	680
WCI1005C8N2JT	8.2	5	25	250	4.40	0.150	680
WCI1005C8N7JT	8.7	5	25	250	4.40	0.150	540
WCI1005C9N1JT	9.1	5	25	250	4.16	0.150	680
WCI1005C10NJT	10	5	24	250	3.90	0.200	480
WCI1005C12NJT	12	5	26	250	3.60	0.120	640
WCI1005C15NJT	15	5	26	250	3.28	0.170	560
WCI1005C18NJT	18	5	25	250	3.10	0.230	420
WCI1005C20NJT	20	5	26	250	3.00	0.250	420
WCI1005C22NJT	22	5	25	250	2.80	0.300	400
WCI1005C23NJT	23	5	25	250	3.80	0.300	310
WCI1005C27NJT	27	5	25	250	2.48	0.300	400
WCI1005C33NJT	33	5	24	250	2.35	0.400	400
WCI1005C39NJT	39	5	25	250	2.10	0.550	200
WCI1005C47NJT	47	5	25	250	2.10	0.830	150
WCI1005C56NJT	56	5	25	250	1.76	0.970	100
WCI1005C68NJT	68	5	25	250	1.62	1.500	100
WCI1005C82NJT	82	5	25	250	1.26	1.800	50
WCI1005C91NJT	91	5	24	250	1.16	2.200	30
WCI1005CR10JT	100	5	24	250	1.16	2.500	30
WCI1005CR12JT	120	5	24	250	1.10	2.200	30
WCI1005CR15JT	150	5	10	250	1.00	4.000	20

WCI1608C Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI1608C1N5ST	1.5	±0.3nH	24	250	12500	0.030	700
WCI1608C1N6ST	1.6	±0.3nH	24	250	12500	0.030	700
WCI1608C1N8JT	1.8	5	16	250	12500	0.045	700
WCI1608C2N0JT	2.0	5	12	250	12500	0.250	700
WCI1608C2N2JT	2.2	5	12	250	12500	0.250	700
WCI1608C2N7JT	2.7	5	22	250	5900	0.045	700
WCI1608C3N3JT	3.3	5	22	250	5900	0.045	700
WCI1608C3N6JT	3.6	5	22	250	5900	0.063	700
WCI1608C3N9JT	3.9	5	22	250	6900	0.080	700
WCI1608C4N3JT	4.3	5	22	250	5900	0.063	700
WCI1608C4N7JT	4.7	5	20	250	5800	0.116	700
WCI1608C5N1JT	5.1	5	20	250	5700	0.140	700
WCI1608C5N6JT	5.6	5	26	250	4760	0.075	700
WCI1608C6N2JT	6.2	5	20	250	5700	0.140	700
WCI1608C6N3JT	6.3	5	20	250	5700	0.140	700
WCI1608C6N8JT	6.8	5	27	250	5800	0.110	700
WCI1608C7N5JT	7.5	5	28	250	4800	0.106	700
WCI1608C8N0JT	8.0	5	28	250	4700	0.109	700
WCI1608C8N2JT	8.2	5	30	250	4200	0.115	700
WCI1608C8N7JT	8.7	5	28	250	4600	0.109	700
WCI1608C9N1JT	9.1	5	28	250	5400	0.125	700
WCI1608C9N5JT	9.5	5	28	250	5400	0.125	700
WCI1608C10NJT	10	5	31	250	4800	0.130	700
WCI1608C11NJT	11	5	30	250	4000	0.130	700
WCI1608C12NJT	12	5	35	250	4000	0.130	700
WCI1608C13NJT	13	5	35	250	4000	0.130	700
WCI1608C15NJT	15	5	35	250	4000	0.170	700
WCI1608C16NJT	16	5	34	250	3300	0.170	700
WCI1608C18NJT	18	5	35	250	3100	0.170	700
WCI1608C20NJT	20	5	36	250	3000	0.180	700
WCI1608C22NJT	22	5	38	250	3000	0.190	700
WCI1608C23NJT	23	5	38	250	3000	0.190	700
WCI1608C24NJT	24	5	36	250	2650	0.135	700
WCI1608C27NJT	27	5	40	250	2800	0.220	600
WCI1608C30NJT	30	5	37	250	2250	0.220	600
WCI1608C33NJT	33	5	40	250	2300	0.220	600
WCI1608C36NJT	36	5	37	250	2080	0.250	600
WCI1608C39NJT	39	5	40	250	2200	0.250	600
WCI1608C43NJT	43	5	38	250	2000	0.280	600
WCI1608C47NJT	47	5	38	200	2000	0.280	600

WCI1608C51NJT	51	5	35	200	1900	0.270	600
WCI1608C56NJT	56	5	38	200	1900	0.310	600
WCI1608C60NJT	60	5	37	200	1800	0.330	600
WCI1608C62NJT	62	5	37	200	1800	0.330	600
WCI1608C68NJT	68	5	37	200	1700	0.340	600
WCI1608C72NJT	72	5	34	150	1700	0.490	400
WCI1608C75NJT	75	5	28	150	1700	0.520	400
WCI1608C82NJT	82	5	34	150	1700	0.540	400
WCI1608C85NJT	85	5	34	150	1700	0.580	400
WCI1608C91NJT	91	5	28	150	1600	0.580	400
WCI1608CR10JT	100	5	34	150	1400	0.580	400
WCI1608CR11JT	110	5	32	150	1350	0.610	300
WCI1608CR12JT	120	5	32	150	1300	0.650	300
WCI1608CR13JT	130	5	32	150	1150	0.920	290
WCI1608CR135JT	135	5	32	150	990	0.920	290
WCI1608CR15JT	150	5	28	150	990	0.920	280
WCI1608CR16JT	160	5	28	150	990	1.250	280
WCI1608CR18JT	180	5	25	100	990	1.250	240
WCI1608CR20JT	200	5	25	100	900	1.980	200
WCI1608CR215JT	215	5	25	100	900	2.100	200
WCI1608CR22JT	220	5	25	100	900	2.100	200
WCI1608CR24JT	240	5	25	100	900	2.200	200
WCI1608CR25JT	250	5	25	100	882	2.550	120
WCI1608CR27JT	270	5	26	100	830	2.160	170
WCI1608CR29JT	290	5	25	100	800	3.200	100
WCI1608CR30JT	300	5	25	100	790	2.500	100
WCI1608CR33JT	330	5	25	100	790	3.890	100
WCI1608CR39JT	390	5	25	100	780	4.350	100
WCI1608CR47JT	470	5	25	100	700	4.500	100
WCI1608CR56JT	560	5	23	100	460	5.000	90

WCI2012C Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI2012C2N2JT	2.2	5	50@1GHz	250	7900	0.06	800
WCI2012C2N7JT	2.7	5	50@1GHz	250	7900	0.06	800
WCI2012C3N0JT	3.0	5	40@1.5GHz	250	7900	0.06	800
WCI2012C3N3JT	3.3	5	40@1.5GHz	250	7900	0.08	600
WCI2012C3N6JT	3.6	5	20@1GHz	250	7900	0.20	200
WCI2012C3N9JT	3.9	5	20@1GHz	250	7900	0.20	150
WCI2012C4N7JT	4.7	5	35@1GHz	250	6200	0.08	600
WCI2012C5N1JT	5.1	5	50@1GHz	250	6200	0.08	600
WCI2012C5N6JT	5.6	5	65@1GHz	250	5900	0.08	600
WCI2012C6N2JT	6.2	5	65@1GHz	250	5900	0.08	600
WCI2012C6N8JT	6.8	5	50@1GHz	250	5600	0.11	600
WCI2012C7N5JT	7.5	5	50@1GHz	250	4800	0.14	600
WCI2012C8N2JT	8.2	5	50@1GHz	250	4400	0.12	600
WCI2012C9N1JT	9.1	5	60@500MHz	250	4300	0.10	600
WCI2012C10NJT	10	5	60@500MHz	250	4300	0.10	600
WCI2012C12NJT	12	5	50@500MHz	250	4000	0.15	600
WCI2012C15NJT	15	5	50@500MHz	250	3200	0.17	600
WCI2012C16NJT	16	5	50@500MHz	250	3200	0.17	600
WCI2012C18NJT	18	5	50@500MHz	250	3100	0.20	600
WCI2012C20NJT	20	5	55@500MHz	250	2600	0.22	500
WCI2012C22NJT	22	5	55@500MHz	250	2600	0.22	500
WCI2012C23NJT	23	5	50@500MHz	250	2400	0.22	500
WCI2012C24NJT	24	5	50@500MHz	250	2400	0.22	500
WCI2012C25NJT	25	5	50@500MHz	250	2450	0.22	500
WCI2012C27NJT	27	5	55@500MHz	250	2580	0.25	500
WCI2012C30NJT	30	5	55@500MHz	250	2400	0.25	500
WCI2012C33NJT	33	5	60@500MHz	250	2150	0.27	500
WCI2012C36NJT	36	5	55@500MHz	250	1900	0.27	500
WCI2012C39NJT	39	5	60@500MHz	250	1850	0.29	500
WCI2012C43NJT	43	5	60@500MHz	200	1800	0.34	500
WCI2012C47NJT	47	5	60@500MHz	200	1700	0.31	500
WCI2012C50NJT	50	5	60@500MHz	200	1650	0.34	500
WCI2012C56NJT	56	5	60@500MHz	200	1600	0.34	500
WCI2012C62NJT	62	5	60@500MHz	200	1450	0.36	500
WCI2012C64NJT	64	5	60@500MHz	200	1500	0.38	500
WCI2012C68NJT	68	5	60@500MHz	200	1500	0.38	500
WCI2012C72NJT	72	5	60@500MHz	150	1400	0.38	500
WCI2012C75NJT	75	5	60@500MHz	150	1400	0.40	450
WCI2012C78NJT	78	5	60@500MHz	150	1400	0.40	450
WCI2012C82NJT	82	5	65@500MHz	150	1330	0.42	400

WCI2012C91NJT	91	5	65@500MHz	150	1330	0.48	400
WCI2012CR10JT	100	5	65@500MHz	150	1250	0.46	400
WCI2012CR11JT	110	5	50@250MHz	150	1100	0.48	400
WCI2012CR12JT	120	5	50@250MHz	150	1100	0.51	400
WCI2012CR13JT	130	5	50@250MHz	100	920	0.56	400
WCI2012CR14JT	140	5	50@250MHz	100	920	0.56	400
WCI2012CR15JT	150	5	50@250MHz	100	920	0.56	400
WCI2012CR16JT	160	5	50@250MHz	100	920	0.60	400
WCI2012CR18JT	180	5	50@250MHz	100	920	0.64	400
WCI2012CR20JT	200	5	50@250MHz	100	860	0.68	400
WCI2012CR21JT	210	5	50@250MHz	100	820	0.70	400
WCI2012CR22JT	220	5	50@250MHz	100	820	0.70	400
WCI2012CR24JT	240	5	44@250MHz	100	770	1.00	350
WCI2012CR25JT	250	5	45@250MHz	100	750	1.20	350
WCI2012CR27JT	270	5	48@250MHz	100	730	1.00	350
WCI2012CR28JT	280	5	48@250MHz	100	550	1.35	350
WCI2012CR29JT	290	5	48@250MHz	150	450	1.40	310
WCI2012CR30JT	300	5	48@250MHz	150	450	1.40	310
WCI2012CR33JT	330	5	48@250MHz	100	650	1.40	310
WCI2012CR36JT	360	5	48@250MHz	100	630	1.45	300
WCI2012CR39JT	390	5	48@250MHz	100	600	1.50	290
WCI2012CR42JT	420	5	33@100MHz	50	425	1.70	250
WCI2012CR43JT	430	5	33@100MHz	50	425	1.70	250
WCI2012CR47JT	470	5	33@100MHz	50	375	1.76	250
WCI2012CR56JT	560	5	23@50MHz	25	330	1.90	230
WCI2012CR62JT	620	5	23@50MHz	25	320	2.20	210
WCI2012CR68JT	680	5	23@50MHz	25	310	2.20	190
WCI2012CR75JT	750	5	23@50MHz	25	310	2.30	180
WCI2012CR82JT	820	5	23@50MHz	25	310	2.35	180
WCI2012CR88JT	880	5	23@50MHz	25	310	2.35	180
WCI2012CR91JT	910	5	22@50MHz	25	250	2.45	170
WCI2012C1R0JT	1000	5	20@50MHz	25	220	2.50	170
WCI2012C1R2JT	1200	5	20@25MHz	25	180	2.90	150
WCI2012C1R5JT	1500	5	20@25MHz	25	160	3.30	150
WCI2012C1R6JT	1600	5	20@25MHz	25	140	3.40	150
WCI2012C1R8JT	1800	5	20@25MHz	25	130	3.50	120
WCI2012C2R2JT	2200	5	20@25MHz	25	100	4.50	120
WCI2012C2R7JT	2700	5	18@25MHz	25	80	4.80	100
WCI2012C3R3JT	3300	5	18@25MHz	25	50	6.80	50
WCI2012C4R7JT	4700	5	18@25MHz	25	40	7.00	30

WCI2520C Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI2520C22NJT	22	5	55@350MHz	50	2400	0.12	1000
WCI2520C39NJT	39	5	60@350MHz	50	1500	0.15	1000
WCI2520C47NJT	47	5	65@350MHz	50	1500	0.16	1000
WCI2520C56NJT	56	5	65@350MHz	50	1300	0.18	1000
WCI2520C68NJT	68	5	65@350MHz	50	1300	0.20	1000
WCI2520C91NJT	91	5	60@350MHz	50	1000	0.56	650
WCI2520CR10JT	100	5	60@350MHz	25	1000	0.56	650
WCI2520CR12JT	120	5	60@350MHz	25	950	0.63	650
WCI2520CR15JT	150	5	45@100MHz	25	850	0.70	580
WCI2520CR18JT	180	5	45@100MHz	25	750	0.77	620
WCI2520CR20JT	200	5	45@100MHz	25	700	0.84	500
WCI2520CR22JT	220	5	45@100MHz	25	700	0.84	500
WCI2520CR27JT	270	5	45@100MHz	25	600	0.91	500
WCI2520CR33JT	330	5	45@100MHz	25	570	1.05	450
WCI2520CR39JT	390	5	45@100MHz	25	500	1.12	470
WCI2520CR47JT	470	5	45@100MHz	25	450	1.19	470
WCI2520CR56JT	560	5	45@100MHz	25	415	1.33	400
WCI2520CR68JT	680	5	45@100MHz	25	375	1.47	400
WCI2520CR82JT	820	5	45@100MHz	25	350	1.61	400
WCI2520CR91JT	910	5	35@50MHz	25	320	1.68	380
WCI2520C1R0JT	1000	5	35@50MHz	25	290	1.80	370
WCI2520C1R2JT	1200	5	35@50MHz	7.9	250	2.00	310
WCI2520C1R5JT	1500	5	28@50MHz	7.9	200	2.30	330
WCI2520C1R8JT	1800	5	28@50MHz	7.9	160	2.60	300
WCI2520C2R2JT	2200	5	28@50MHz	7.9	160	2.80	280
WCI2520C2R7JT	2700	5	22@25MHz	7.9	140	3.20	290
WCI2520C3R3JT	3300	5	22@25MHz	7.9	110	3.40	290
WCI2520C3R9JT	3900	5	20@25MHz	7.9	100	3.60	260
WCI2520C4R7JT	4700	5	20@7.9MHz	7.9	60	4.00	260
WCI2520C5R6JT	5600	5	16@7.9MHz	7.9	20	5.70	240
WCI2520C6R8JT	6800	5	18@7.9MHz	7.9	40	7.70	200
WCI2520C8R2JT	8200	5	18@7.9MHz	7.9	25	10.70	170
WCI2520C100JT	10000	5	18@7.9MHz	7.9	25	12.70	100

WCI3225C Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI3225C10NJT	10	5	40@300MHZ	100	4000	0.08	1000
WCI3225C12NJT	12	5	40@300MHZ	100	3200	0.08	1000
WCI3225C15NJT	15	5	40@300MHZ	100	3200	0.20	1000
WCI3225C18NJT	18	5	50@300MHZ	100	2800	0.10	1000
WCI3225C22NJT	22	5	50@300MHZ	100	2200	0.10	1000
WCI3225C27NJT	27	5	50@300MHZ	100	1800	0.11	1000
WCI3225C33NJT	33	5	55@300MHZ	100	1800	0.11	1000
WCI3225C39NJT	39	5	55@300MHZ	100	1500	0.12	1000
WCI3225C43NJT	43	5	55@300MHZ	100	1500	0.12	1000
WCI3225C47NJT	47	5	55@300MHZ	100	1500	0.13	1000
WCI3225C56NJT	56	5	55@300MHZ	100	1450	0.14	1000
WCI3225C68NJT	68	5	55@300MHZ	100	1200	0.15	900
WCI3225C82NJT	82	5	55@300MHZ	100	1000	0.20	900
WCI3225C91NJT	91	5	60@300MHZ	100	1100	0.20	1000
WCI3225CR10JT	100	5	55@300MHZ	100	900	0.20	850
WCI3225CR12JT	120	5	60@300MHZ	100	800	0.25	800
WCI3225CR15JT	150	5	60@300MHZ	100	700	0.30	750
WCI3225CR18JT	180	5	60@300MHZ	50	650	0.30	700
WCI3225CR22JT	220	5	60@300MHZ	50	650	0.40	770
WCI3225CR24JT	240	5	40@300MHZ	50	580	0.40	630
WCI3225CR27JT	270	5	40@300MHZ	50	580	0.40	630
WCI3225CR33JT	330	5	45@150MHZ	50	580	0.58	590
WCI3225CR36JT	360	5	45@150MHZ	50	510	0.58	530
WCI3225CR39JT	390	5	45@150MHZ	50	510	0.58	530
WCI3225CR47JT	470	5	45@150MHZ	50	480	1.00	490
WCI3225CR56JT	560	5	45@150MHZ	25	420	1.10	460
WCI3225CR68JT	680	5	45@150MHZ	25	400	1.20	430
WCI3225CR82JT	820	5	45@150MHZ	25	370	2.00	400
WCI3225C1R0JT	1000	5	45@150MHZ	25	340	1.85	320
WCI3225C1R2JT	1200	5	45@150MHZ	25	220	2.30	300
WCI3225C1R5JT	1500	5	20@50MHZ	7.9	160	2.70	310
WCI3225C1R8JT	1800	5	30@50MHZ	7.9	160	3.50	310
WCI3225C2R2JT	2200	5	25@50MHZ	7.9	130	2.41	310
WCI3225C2R7JT	2700	5	25@50MHZ	7.9	110	3.50	300
WCI3225C3R0JT	3000	5	20@25MHZ	7.9	110	3.50	300
WCI3225C3R3JT	3300	5	20@25MHZ	7.9	60	3.60	290
WCI3225C3R9JT	3900	5	20@25MHZ	7.9	60	4.00	290
WCI3225C4R7JT	4700	5	20@25MHZ	7.9	60	5.00	280
WCI3225C5R2JT	5200	5	15@25MHZ	7.9	50	6.00	250
WCI3225C5R6JT	5600	5	15@25MHZ	7.9	50	6.00	250

WCI3225C6R8JT	6800	5	15@7.9MHZ	7.9	40	9.00	230
WCI3225C7R5JT	7500	5	20@7.9MHZ	7.9	50	9.50	170
WCI3225C8R2JT	8200	5	20@7.9MHZ	7.9	50	9.50	170
WCI3225C8R6JT	8600	5	15@7.9MHZ	7.9	40	9.00	200
WCI3225C100JT	10000	5	15@7.9MHZ	7.9	30	10.00	150

Note:

Please specify the inductance tolerance: S:±0.3nH, D:±0.5nH, G:±2%, J:±5%, K:±10%.

Irms: DC current that causes the temperature rise($\Delta T=40^{\circ}\text{C}$) from 25°C ambient.