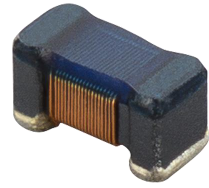


### FEATURES

- Small chip suitable for surface mounting.
- Large inductance with ferrite material.
- Excellent solderability and heat resistance for reflow soldering.
- Operating temperature: -40°C ~ +85°C.



### APPLICATIONS

- Personal computer , DVD recorders and Wireless communication equipment.
- Various types of general electronic equipment, Test equipment..

### PRODUCT IDENTIFICATION

WCI 1005 F R47 K T

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

- (1) 系列名称 Series name
- (2) 产品尺寸 Product dimensions
- (3) 特性类别 Feature Type (F: Ferrite Type, L: High Current Type)
- (4) 电感量 Inductance Value (78N: 0.078μH, R10: 0.10μH, 1R0: 1.0μH)
- (5) 电感公差 Inductance Tolerance(J:5%, K:10%, M:20%)
- (6) 包装 Package(T:Tape&Reel 卷盘编带)

### SHAPE AND DIMENSIONS



Series	L Max.	W Max.	T Max.	E Typ.	F Typ.	D Typ.
WCI1005F	1.19	0.70	0.64	0.36	0.66	0.46
WCI1608F	1.80	1.25	1.10	0.64	1.02	0.64
WCI2012F	2.40	1.73	1.52	1.02	1.78	0.76
WCI2520F	2.92	2.70	2.23	1.02	2.54	1.27
WCI3225F	3.50	2.90	2.25	1.02	2.54	1.78
WCI4532F	4.95	3.85	3.43	1.14	3.05	3.00

Unit:mm

## SPECIFICATIONS

### WCI1005F Series

Part Number	Inductance (nH)	Tolerance (%)	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Isat (mA)
WCI1005F78NKT	78	10	7.9	1600	0.13	970
WCI1005FR10KT	100	10	7.9	1400	0.16	900
WCI1005FR11KT	110	10	7.9	1000	0.20	850
WCI1005FR12KT	120	10	7.9	1000	0.20	850
WCI1005FR14KT	140	10	7.9	1220	0.26	630
WCI1005FR15KT	150	10	7.9	1220	0.26	630
WCI1005FR18KT	180	10	7.9	1150	0.28	560
WCI1005FR20KT	200	10	7.9	1000	0.44	400
WCI1005FR22KT	220	10	7.9	1150	0.53	380
WCI1005FR25KT	250	10	7.9	900	0.90	360
WCI1005FR27KT	270	10	7.9	860	0.90	360
WCI1005FR30KT	300	10	7.9	860	0.90	360
WCI1005FR36KT	360	10	7.9	810	0.90	250
WCI1005FR39KT	390	10	7.9	760	1.00	200
WCI1005FR47KT	470	10	7.9	650	1.00	200
WCI1005FR56KT	560	10	7.9	600	1.20	200
WCI1005FR82KT	820	10	7.9	385	5.85	90
WCI1005F1R0KT	1000	10	7.9	200	6.50	50

### WCI1608F Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Isat (mA)
WCI1608FR12KT	0.12	10	12	7.9	1000	0.15	1000
WCI1608FR18KT	0.18	10	12	7.9	950	0.20	1000
WCI1608FR22KT	0.22	10	12	7.9	775	0.30	700
WCI1608FR27KT	0.27	10	12	7.9	775	0.30	700
WCI1608FR33KT	0.33	10	12	7.9	725	0.32	600
WCI1608FR39KT	0.39	10	12	7.9	620	0.51	500
WCI1608FR47KT	0.47	10	12	7.9	540	0.43	570
WCI1608FR56KT	0.56	10	12	7.9	600	0.65	400
WCI1608FR68KT	0.68	10	12	7.9	500	1.00	380
WCI1608FR82KT	0.82	10	12	7.9	500	1.30	350
WCI1608F1R0KT	1.0	10	12	7.9	400	0.81	330
WCI1608F1R2KT	1.2	10	12	7.9	380	1.70	320
WCI1608F1R5KT	1.5	10	12	7.9	300	1.30	310
WCI1608F1R8KT	1.8	10	12	7.9	180	2.20	300
WCI1608F2R2KT	2.2	10	12	7.9	180	2.30	280
WCI1608F2R7KT	2.7	10	12	7.9	150	2.60	250

WCI1608F3R3KT	3.3	10	12	7.9	150	2.90	230
WCI1608F3R9KT	3.9	10	12	7.9	100	2.00	200
WCI1608F4R7KT	4.7	10	12	7.9	100	4.00	200
WCI1608F5R6KT	5.6	10	12	7.9	32	2.60	240
WCI1608F6R8KT	6.8	10	12	7.9	31	3.90	200
WCI1608F8R2KT	8.2	10	12	7.9	26	4.20	190
WCI1608F100KT	10	10	12	2.5	25	4.80	180
WCI1608F150KT	15	10	10	2.5	23	8.50	170
WCI1608F220KT	22	10	10	2.5	10	12.00	100

### WCI1608L Series

Part Number	Inductance (μH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI1608L1R0KT	1.0	10	16	7.9	250	0.41	700
WCI1608L1R5KT	1.5	10	16	7.9	160	0.52	600
WCI1608L1R8KT	1.8	10	16	7.9	121	0.56	580
WCI1608L2R2KT	2.2	10	16	7.9	103	0.72	580
WCI1608L2R7KT	2.7	10	16	7.9	72	0.81	500
WCI1608L3R9KT	3.9	10	16	7.9	61	1.08	460
WCI1608L4R7KT	4.7	10	16	7.9	51	0.97	420
WCI1608L5R6KT	5.6	10	16	7.9	47	1.43	380
WCI1608L6R8KT	6.8	10	16	7.9	43	1.95	340
WCI1608L100KT	10	10	14	2.5	36	2.40	280
WCI1608L120KT	12	10	14	2.5	32	2.96	260
WCI1608L150KT	15	10	14	2.5	29	3.38	220
WCI1608L220KT	22	10	14	2.5	24	4.69	200
WCI1608L270KT	27	10	14	2.5	20	6.76	140
WCI1608L330KT	33	10	14	2.5	15	8.58	120

### WCI2012F Series

Part Number	Inductance (μH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Isat (mA)
WCI2012FR12□T	0.12	K,M	19	7.9	340	0.27	750
WCI2012FR15□T	0.15	K,M	19	7.9	480	0.30	720
WCI2012FR18□T	0.18	K,M	19	7.9	480	0.40	720
WCI2012FR22□T	0.22	K,M	19	7.9	480	0.40	720
WCI2012FR39□T	0.39	K,M	19	7.9	500	0.31	720
WCI2012FR47□T	0.47	K,M	19	7.9	500	0.31	720
WCI2012FR56□T	0.56	K,M	12	7.9	400	0.46	400
WCI2012FR68□T	0.68	K,M	19	7.9	400	0.46	590
WCI2012FR82□T	0.82	K,M	12	7.9	360	1.00	520

WCI2012F1R0□T	1.0	K,M	12	7.9	360	1.00	430
WCI2012F1R2□T	1.2	K,M	12	7.9	350	1.15	410
WCI2012F1R5□T	1.5	K,M	12	7.9	300	1.20	400
WCI2012F1R8□T	1.8	K,M	12	7.9	300	1.35	380
WCI2012F2R2□T	2.2	K,M	12	7.9	170	1.50	350
WCI2012F2R7□T	2.7	K,M	12	7.9	100	1.70	320
WCI2012F3R3□T	3.3	K,M	12	7.9	90	1.80	300
WCI2012F3R9□T	3.9	K,M	12	7.9	90	1.95	280
WCI2012F4R7□T	4.7	K,M	12	7.9	85	2.05	250
WCI2012F5R6□T	5.6	K,M	12	7.9	70	2.30	240
WCI2012F6R8□T	6.8	K,M	12	7.9	55	2.60	220
WCI2012F8R2□T	8.2	K,M	12	7.9	50	3.00	180
WCI2012F100□T	10	K,M	10	2.5	40	3.20	150
WCI2012F120□T	12	K,M	10	2.5	16	3.50	100
WCI2012F150□T	15	K,M	10	2.5	16	4.20	100
WCI2012F180□T	18	K,M	10	2.5	15	4.50	95
WCI2012F220□T	22	K,M	10	2.5	14	6.00	80
WCI2012F270□T	27	K,M	10	2.5	17	10.70	60
WCI2012F330□T	33	K,M	10	2.5	17	10.70	60
WCI2012F470□T	47	K,M	10	2.5	14	13.80	55
WCI2012F680□T	68	K,M	8	2.5	11	17.50	40
WCI2012F101□T	100	K,M	8	1	5	25.00	30
WCI2012F111□T	110	K,M	8	1	5	26.00	20

### WCI2012L Series

Part Number	Inductance (μH)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
WCI2012LR68□T	0.68	K,M	14	7.9	765	0.19	1200
WCI2012L1R0□T	1.0	K,M	14	7.9	208	0.17	1100
WCI2012L1R2□T	1.2	K,M	14	7.9	208	0.17	960
WCI2012L1R5□T	1.5	K,M	14	7.9	130	0.22	880
WCI2012L1R8□T	1.8	K,M	14	7.9	112	0.26	860
WCI2012L2R2□T	2.2	K,M	12	7.9	80	0.31	740
WCI2012L3R3□T	3.3	K,M	12	7.9	50	0.36	620
WCI2012L4R7□T	4.7	K,M	14	7.9	51	0.56	520
WCI2012L5R6□T	5.6	K,M	12	7.9	42	0.65	480
WCI2012L6R8□T	6.8	K,M	14	7.9	35	0.88	420
WCI2012L8R2□T	8.2	K,M	13	7.9	33	0.94	400
WCI2012L100□T	10	J,K,M	14	2.5	25	1.17	300
WCI2012L120□T	12	J,K,M	14	2.5	30	1.50	290
WCI2012L150□T	15	J,K,M	15	2.5	28	1.82	280
WCI2012L180□T	18	J,K,M	15	2.5	27	2.01	260

WCI2012L220□T	22	J,K,M	15	2.5	20	2.29	240
WCI2012L470□T	47	J,K,M	14	2.5	15	4.42	160
WCI2012L560□T	56	J,K,M	14	2.5	10	5.75	150
WCI2012L680□T	68	J,K,M	14	2.5	10	5.90	140
WCI2012L820□T	82	J,K,M	14	2.5	10	9.75	100
WCI2012L101□T	100	J,K,M	10	1	5	9.75	100

### WCI2520F Series

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Isat (mA)
WCI2520FR39KT	0.39	10	12	7.9	400	0.40	500
WCI2520FR47KT	0.47	10	12	7.9	600	0.27	700
WCI2520FR56KT	0.56	10	12	7.9	230	0.62	700
WCI2520FR68KT	0.68	10	12	7.9	230	0.62	700
WCI2520FR82KT	0.82	10	12	7.9	230	0.62	700
WCI2520FR90KT	0.90	10	20	7.9	300	0.35	1400
WCI2520F1R0KT	1.0	10	18	7.9	230	0.62	700
WCI2520F1R2KT	1.2	10	18	7.9	210	0.68	650
WCI2520F1R5KT	1.5	10	18	7.9	190	0.76	630
WCI2520F1R8KT	1.8	10	18	7.9	170	0.84	600
WCI2520F2R0KT	2.0	10	18	7.9	160	1.10	550
WCI2520F2R2KT	2.2	10	18	7.9	150	1.10	520
WCI2520F2R7KT	2.7	10	18	7.9	135	1.28	490
WCI2520F3R3KT	3.3	10	18	7.9	120	1.46	450
WCI2520F3R9KT	3.9	10	18	7.9	105	2.30	300
WCI2520F4R7KT	4.7	10	18	7.9	90	2.00	400
WCI2520F5R6KT	5.6	10	15	7.9	80	1.80	380
WCI2520F6R8KT	6.8	10	15	7.9	70	2.00	360
WCI2520F8R2KT	8.2	10	15	7.9	65	2.65	330
WCI2520F100KT	10	10	12	2.5	60	2.95	300
WCI2520F150KT	15	10	12	2.5	30	3.70	280
WCI2520F180KT	18	10	12	2.5	26	4.00	160
WCI2520F220KT	22	10	12	2.5	22	6.14	270
WCI2520F330KT	33	10	10	2.5	12	7.00	200
WCI2520F390KT	39	10	10	2.5	16	10.00	180
WCI2520F470KT	47	10	10	2.5	10	10.70	160
WCI2520F560KT	56	10	10	2.5	8	12.00	170
WCI2520F680KT	68	10	10	2.5	6	13.50	145
WCI2520F820KT	82	10	8	2.5	6	20.00	100
WCI2520F101KT	100	10	8	1	4	21.00	80

**WCI3225F Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Isat (mA)
WCI3225FR56KT	0.56	10	20	7.9	180	0.55	450
WCI3225FR82KT	0.82	10	20	7.9	200	0.40	450
WCI3225F1R0KT	1.0	10	20	7.9	200	0.40	450
WCI3225F1R2KT	1.2	10	20	7.9	200	0.40	450
WCI3225F1R5KT	1.5	10	20	7.9	200	0.40	450
WCI3225F1R8KT	1.8	10	20	7.9	195	0.80	450
WCI3225F2R2KT	2.2	10	30	7.9	175	0.80	450
WCI3225F3R3KT	3.3	10	20	7.9	150	1.20	400
WCI3225F4R7KT	4.7	10	18	7.9	60	1.30	350
WCI3225F5R6KT	5.6	10	18	7.9	50	2.00	320
WCI3225F6R8KT	6.8	10	18	7.9	35	1.50	310
WCI3225F8R2KT	8.2	10	15	7.9	33	1.60	305
WCI3225F100KT	10	10	15	2.5	30	1.00	300
WCI3225F120KT	12	10	15	2.5	25	1.80	300
WCI3225F150KT	15	10	15	2.5	22	2.00	225
WCI3225F180KT	18	10	15	2.5	22	2.05	215
WCI3225F220KT	22	10	15	2.5	20	2.40	210
WCI3225F270KT	27	10	15	2.5	20	2.80	180
WCI3225F330KT	33	10	15	2.5	15	2.90	160
WCI3225F470KT	47	10	15	2.5	10	5.20	140
WCI3225F560KT	56	10	8	2.5	8	5.60	125
WCI3225F680KT	68	10	6	1	10	13.00	100
WCI3225F820KT	82	10	6	1	10	13.00	100
WCI3225F101KT	100	10	6	1	10	13.00	100
WCI3225F221KT	220	10	8	1	2.6	30.00	65
WCI3225F331KT	330	10	8	1	2.3	35.00	55
WCI3225F471KT	470	10	8	1	2	42.00	40
WCI3225F561KT	560	10	8	1	3	60.00	10
WCI3225F621KT	620	10	8	1	2	85.00	10
WCI3225F681KT	680	10	6	1	2	90.00	10

**WCI4532F Series**

Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	Isat (mA)
WCI4532F1R0□T	1.0	K,M	25	7.9	250	0.45	600
WCI4532F2R2□T	2.2	K,M	25	7.9	200	0.50	600
WCI4532F4R7□T	4.7	K,M	25	7.9	100	0.60	600
WCI4532F6R8□T	6.8	K,M	25	7.9	80	0.80	600
WCI4532F100□T	10	K,M	20	2.5	50	1.10	490
WCI4532F120□T	12	K,M	20	2.5	55	1.10	490
WCI4532F150□T	15	K,M	18	2.5	35	1.20	450
WCI4532F180□T	18	K,M	18	2.5	29	1.20	430
WCI4532F220□T	22	K,M	18	2.5	20	1.30	400
WCI4532F330□T	33	K,M	18	2.5	18	1.70	350
WCI4532F470□T	47	K,M	16	2.5	10	2.20	200
WCI4532F101□T	100	J,K,M	15	1	4	5.90	130
WCI4532F221□T	220	J,K,M	10	1	2.5	8.00	100
WCI4532F561□T	560	J,K,M	10	1	1.5	12.50	110
WCI4532F681□T	680	J,K,M	10	1	1.5	14.00	50
WCI4532F102□T	1000	J,K,M	8	1	1.4	16.50	50

**Note:**

Please specify the inductance tolerance: J:5%, K:10%, M:20%.

Isat: DC current at which the inductance drops approximate 30% from its value without current.

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