

WIRE WOUND CHIP INDUCTORS 繞線片式電感

WCI Series(0402/0603/0805/1008/1210/1812)

FEATURES 特征

Minature size,suitable for SMT

體積小，適合高密度表面貼裝

Using terminal electrode structure to restrain the parasitic component effect quite caused by lead

採用端電極結構，很好的抑制了引線的寄生元件效應，具有高可靠性

Excellent in solderability and heat resistance

優良的焊接性和耐焊性

Best frequency special property and intense ability to resist interference.

更好的頻率特性和更強的抗干擾能力

APPLICATIONS 用途

Protoble communication equipment and PDA,High speed electronic device

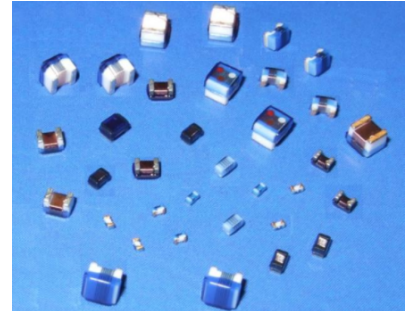
移動通信，PDA，各種高頻回路

Used for radiation high speed noise suppression

抑制各種高頻雜波

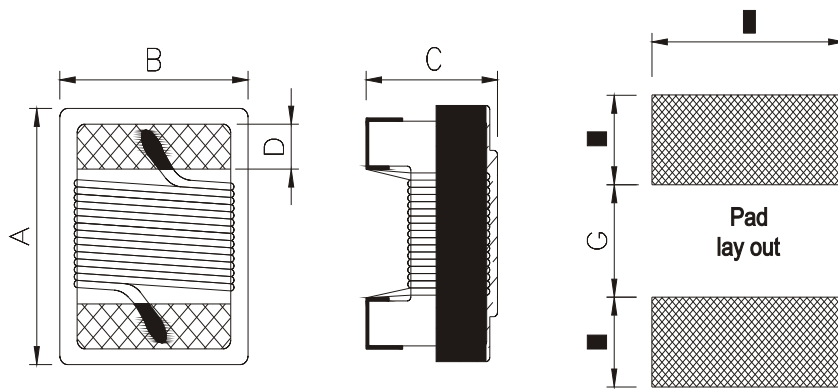
PRODUCT IDENTIFICATION 產品標識

WCI 0805 UC 1R0 J S T - HF
 (1) (2) (3) (4) (5) (6) (7) (8)



(1)	(2)		(3)	(4)		(5)	(6)	(7)	(8)
產品代號	規格尺寸 (A×B) mm		材料代號	感量(nH)		誤差	電極類型	包裝方式	環保標識
繞線片式電感 Wire wound chip inductor	0402	1.0×0.5	UC:陶瓷芯 IF:鐵氧體芯	實例：		F:±1%	G:GOLD	T:卷帶盤裝	LF:Lead free HF:Halogen free FP:Free red phosphor
	0603	1.6×0.8		1N0	1.0	G:±2%	S:TIN	B:散裝	
	0805	2.0×1.2		10N	10	J:±5%			
	1008	2.5×2.0		R10	100	K:±10%			
	1210	3.2×2.5		1R0	1000	M:±20%			
	1812	4.5×3.2		100	10000				

SHAPES AND DIMENSIONS Unit:mm(inch)



※Design as Customer's Requested Specifications. (可按顧客的特殊需求設計)

■ SHAPES AND DIMENSIONS Unit:mm

Part NO.	A(Max.)	B(Max.)	C(Max.)	D	E	F	G
0402	1.19	0.66	0.64	0.23	0.64	0.40	0.64
0603	1.80	1.12	0.95	0.30	1.02	0.64	0.64
0805	2.29	1.73	1.52	0.50	1.78	1.02	0.76
1008	2.92	2.70	2.23	0.50	2.54	1.02	1.27
1210	3.50	2.90	2.25	0.50	2.54	1.02	1.78
1812	4.80	3.40	3.15	0.65	3.05	1.14	3.00

■ PRODUCT SPECIFICATIONS

SERIES	PART NUMBER	INDUCTANCE (nH)	Test Freq (MHz)	SRF(min) (MHz)	DCR(max) (Ω)	I _{rms} (max) (mA)
WCI0402IF	WCI0402IF20N□ST-HF	20	7.9	2600	0.050	1600
	WCI0402IF22N□ST-HF	22	7.9	2500	0.065	1300
	WCI0402IF33N□ST-HF	33	7.9	2300	0.060	1400
	WCI0402IF36N□ST-HF	36	7.9	2300	0.075	1300
	WCI0402IF39N□ST-HF	39	7.9	2200	0.115	830
	WCI0402IF51N□ST-HF	51	7.9	1930	0.070	1100
	WCI0402IF56N□ST-HF	56	7.9	1900	0.095	1000
	WCI0402IF72N□ST-HF	72	7.9	1650	0.100	1000
	WCI0402IF78N□ST-HF	78	7.9	1600	0.130	970
	WCI0402IFR10□ST-HF	100	7.9	1400	0.160	900
	WCI0402IFR14□ST-HF	140	7.9	1220	0.260	630
	WCI0402IFR18□ST-HF	180	7.9	1150	0.280	560
	WCI0402IFR20□ST-HF	200	7.9	1000	0.440	400
	WCI0402IFR22□ST-HF	220	7.9	1150	0.530	380
	WCI0402IFR25□ST-HF	250	7.9	900	0.360	520
	WCI0402IFR27□ST-HF	270	7.9	860	0.900	360
	WCI0402IFR30□ST-HF	300	7.9	860	0.410	420
	WCI0402IFR33□ST-HF	330	7.9	820	0.560	350
	WCI0402IFR36□ST-HF	360	7.9	810	0.575	300
	WCI0402IFR39□ST-HF	390	7.9	760	1.000	300
	WCI0402IFR42□ST-HF	420	7.9	700	0.700	340
	WCI0402IFR47□ST-HF	470	7.9	650	0.730	310
	WCI0402IFR56□ST-HF	560	7.9	600	1.200	200
WCI0402IFR82□ST-HF	820	7.9	385	5.850	90	

■ PRODUCT SPECIFICATIONS

SERIES	PART NUMBER	INDUCTANCE (μ H)	Test Freq (MHz)	Q (min)	SRF(min) (MHz)	DCR(max) (Ω)	I _{rms} (max) (mA)
WCI0603IF	WCI0603IFR10□ST-HF	0.10	7.9	12	1150	0.13	1000
	WCI0603IFR15□ST-HF	0.15	7.9	12	950	0.15	1000
	WCI0603IFR18□ST-HF	0.18	7.9	12	950	0.20	1000
	WCI0603IFR20□ST-HF	0.20	7.9	12	1030	0.20	740
	WCI0603IFR22□ST-HF	0.22	7.9	12	775	0.30	700
	WCI0603IFR27□ST-HF	0.27	7.9	12	775	0.30	700
	WCI0603IFR33□ST-HF	0.33	7.9	12	725	0.32	600
	WCI0603IFR39□ST-HF	0.39	7.9	12	620	0.51	500
	WCI0603IFR47□ST-HF	0.47	7.9	12	540	0.62	420
	WCI0603IFR51□ST-HF	0.51	7.9	12	600	0.65	400
	WCI0603IFR56□ST-HF	0.56	7.9	12	600	0.65	400
	WCI0603IFR68□ST-HF	0.68	7.9	12	500	1.00	380
	WCI0603IFR75□ST-HF	0.75	7.9	12	500	1.30	350
	WCI0603IFR82□ST-HF	0.82	7.9	12	500	1.30	350
	WCI0603IF1R0□ST-HF	1.00	7.9	12	400	1.50	330
	WCI0603IF1R2□ST-HF	1.20	7.9	12	380	1.70	320
	WCI0603IF1R5□ST-HF	1.50	7.9	12	300	1.90	310
	WCI0603IF1R8□ST-HF	1.80	7.9	12	180	2.20	300
	WCI0603IF2R0□ST-HF	2.00	7.9	12	180	2.30	280
	WCI0603IF2R2□ST-HF	2.20	7.9	12	180	2.30	280
	WCI0603IF2R7□ST-HF	2.70	7.9	12	150	2.60	250
	WCI0603IF3R3□ST-HF	3.30	7.9	12	150	2.90	230
	WCI0603IF3R9□ST-HF	3.90	7.9	12	120	3.20	210
	WCI0603IF4R7□ST-HF	4.70	7.9	12	100	4.00	200
	WCI0603IF5R1□ST-HF	5.10	7.9	15	32	2.60	240
	WCI0603IF5R6□ST-HF	5.60	7.9	15	32	2.60	240
	WCI0603IF6R8□ST-HF	6.80	7.9	12	31	3.90	200
	WCI0603IF8R2□ST-HF	8.20	7.9	12	26	4.20	190
	WCI0603IF100□ST-HF	10.00	2.5	10	25	4.80	180
	WCI0603IF150□ST-HF	15.00	2.5	10	23	8.50	170
WCI0603IF180□ST-HF	18.00	2.5	10	22	10.00	160	
WCI0603IF1R2□ST-HF	22.00	2.5	10	10	12.00	100	

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■ PRODUCT SPECIFICATIONS

SERIES	PART NUMBER	INDUCTANCE (μ H)	Test Freq (MHz)	Q (min)	SRF(min) (MHz)	DCR(max) (Ω)	Irms(max) (mA)
WCI0805IF	WCI0805IFR10□ST-HF	0.1	7.9	19	340	0.69	500
	WCI0805IFR22□ST-HF	0.22	7.9	19	480	0.40	600
	WCI0805IFR22□ST-HF	0.33	7.9	19	500	0.31	720
	WCI0805IFR39□ST-HF	0.39	7.9	19	500	0.31	720
	WCI0805IFR47□ST-HF	0.47	7.9	19	500	0.31	720
	WCI0805IFR68□ST-HF	0.68	7.9	19	400	0.46	590
	WCI0805IFR88□ST-HF	0.88	7.9	12	360	1.00	520
	WCI0805IFR91□ST-HF	0.91	7.9	12	360	1.00	500
	WCI0805IF1R0□ST-HF	1	7.9	12	360	1.00	430
	WCI0805IF1R2□ST-HF	1.2	7.9	12	350	1.15	410
	WCI0805IF1R5□ST-HF	1.5	7.9	12	300	1.20	400
	WCI0805IF1R8□ST-HF	1.8	7.9	12	300	1.35	380
	WCI0805IF2R2□ST-HF	2.2	7.9	12	170	1.50	350
	WCI0805IF2R7□ST-HF	2.7	7.9	12	100	1.70	320
	WCI0805IF3R3□ST-HF	3.3	7.9	12	90	1.80	300
	WCI0805IF3R9□ST-HF	3.9	7.9	12	90	1.95	280
	WCI0805IF4R7□ST-HF	4.7	7.9	12	85	2.05	250
	WCI0805IF5R6□ST-HF	5.6	7.9	12	70	2.30	240
	WCI0805IF6R8□ST-HF	6.8	7.9	12	55	2.60	220
	WCI0805IF8R0□ST-HF	8	7.9	12	50	3.00	180
	WCI0805IF8R2□ST-HF	8.2	7.9	12	50	3.00	180
	WCI0805IF100□ST-HF	10	2.5	10	30	3.20	150
	WCI0805IF120□ST-HF	12	2.5	10	17	3.50	100
	WCI0805IF150□ST-HF	15	2.5	10	16	4.20	100
	WCI0805IF180□ST-HF	18	2.5	10	15	4.50	95
	WCI0805IF220□ST-HF	22	2.5	10	14	6.00	80
	WCI0805IF390□ST-HF	39	2.5	10	14	10.00	60
	WCI0805IF470□ST-HF	47	2.5	10	14	13.80	55
WCI0805IF101□ST-HF	100	1	1	8	5	25.00	30

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WCI1008IF	WCI1008IFR56□ST-HF	0.56	7.9	12	230	0.62	700
	WCI1008IFR68□ST-HF	0.68	7.9	12	230	0.62	700
	WCI1008IFR82□ST-HF	0.82	7.9	12	230	0.62	700
	WCI1008IF1R0□ST-HF	1	7.9	18	230	0.62	700
	WCI1008IF1R2□ST-HF	1.2	7.9	18	210	0.68	650
	WCI1008IF1R5□ST-HF	1.5	7.9	18	190	0.76	630
	WCI1008IF1R8□ST-HF	1.8	7.9	18	170	0.84	600
	WCI1008IF2R2□ST-HF	2.2	7.9	18	150	1.10	520
	WCI1008IF2R7□ST-HF	2.7	7.9	18	135	1.28	490
	WCI1008IF3R3□ST-HF	3.3	7.9	18	120	1.46	450
	WCI1008IF3R9□ST-HF	3.9	7.9	18	105	1.56	420
	WCI1008IF4R7□ST-HF	4.7	7.9	18	90	2.00	400
	WCI1008IF5R6□ST-HF	5.6	7.9	15	80	1.80	380
	WCI1008IF6R8□ST-HF	6.8	7.9	15	70	2.00	360
	WCI1008IF8R2□ST-HF	8.2	7.9	15	65	2.65	330
	WCI1008IF100□ST-HF	10	2.5	12	60	2.95	300
	WCI1008IF180□ST-HF	18	2.5	12	26	4.00	160
	WCI1008IF220□ST-HF	22	2.5	12	22	6.14	270
	WCI1008IF300□ST-HF	30	2.5	10	12	6.80	200
	WCI1008IF330□ST-HF	33	2.5	10	12	7.00	200
	WCI1008IF390□ST-HF	39	2.5	10	16	10.00	170
	WCI1008IF470□ST-HF	47	2.5	10	10	10.70	160
	WCI1008IF560□ST-HF	56	2.5	10	8	12.00	170
	WCI1008IF680□ST-HF	68	2.5	10	6	13.50	145
WCI1008IF820□ST-HF	82	2.5	8	6	20.00	100	
WCI1008IF101□ST-HF	100	1	8	4	20.50	120	

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■ PRODUCT SPECIFICATIONS

SERIES	PART NUMBER	INDUCTANCE (μ H)	Tolerance (%)	Q (min)	SRF(min) (MHz)	DCR(max) (Ω)	IDC(max) (mA)
WCI1210IF	WCI1210IFR56□ST-HF	0.56	25	20	180	0.55	450
	WCI1210IF1R5□ST-HF	1.5	7.9	20	200	0.40	450
	WCI1210IF1R8□ST-HF	1.8	7.9	20	195	0.50	450
	WCI1210IF2R2□ST-HF	2.2	7.9	20	175	0.80	450
	WCI1210IF4R7□ST-HF	4.7	7.9	18	60	1.30	350
	WCI1210IF5R6□ST-HF	5.6	2.5	18	50	2.00	320
	WCI1210IF100□ST-HF	10	2.5	15	30	1.00	300
	WCI1210IF150□ST-HF	15	2.5	15	22	2.00	225
	WCI1210IF180□ST-HF	18	2.5	15	22	2.05	215
	WCI1210IF220□ST-HF	22	2.5	15	20	2.10	210
	WCI1210IF270□ST-HF	27	2.5	15	18	2.70	180
	WCI1210IF330□ST-HF	33	2.5	15	15	2.90	160
	WCI1210IF470□ST-HF	47	2.5	15	10	5.20	140
	WCI1210IF560□ST-HF	56	2.5	8	8	5.60	125
	WCI1210IF680□ST-HF	68	1	6	10	13.00	100
	WCI1210IF820□ST-HF	82	1	6	10	13.00	100
	WCI1210IF101□ST-HF	100	1	6	10	13.00	100
	WCI1210IF121□ST-HF	121	1	6	10	13.00	100
	WCI1210IF151□ST-HF	150	1	10	4	20.00	80
	WCI1210IF181□ST-HF	180	1	8	3	14.50	70
	WCI1210IF200□ST-HF	200	1	8	2.6	30.00	65
	WCI1210IF221□ST-HF	220	1	8	2.6	30.00	65
	WCI1210IF331□ST-HF	330	1	8	2.3	35.00	55
	WCI1210IF471□ST-HF	470	1	8	2	42.00	40
WCI1210IF561□ST-HF	560	1	8	2	60.00	10	
WCI1210IF621□ST-HF	620	1	8	2	85.00	10	
WCI1210IF681□ST-HF	680	1	6	2	90.00	10	

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SERIES	PART NUMBER	INDUCTANCE (μH)	Tolerance (%)	Q (min)	SRF(min) (MHz)	DCR(max) (Ω)	IDC(max) (mA)
WCI18121F	WCI18121F1R0□ST-HF	1.0@7.96MHz	10,5	25@7.96MHz	200	0.22	1000
	WCI18121F1R2□ST-HF	1.2@7.96MHz	10,5	25@7.96MHz	200	0.35	1000
	WCI18121F1R5□ST-HF	1.5@7.96MHz	10,5	25@7.96MHz	180	0.32	1000
	WCI18121F1R8□ST-HF	1.8@7.96MHz	10,5	25@7.96MHz	160	0.35	950
	WCI18121F2R2□ST-HF	2.2@7.96MHz	10,5	25@7.96MHz	150	0.37	900
	WCI18121F2R7□ST-HF	2.7@7.96MHz	10,5	25@7.96MHz	145	0.37	850
	WCI18121F3R3□ST-HF	3.3@7.96MHz	10,5	25@7.96MHz	140	0.48	800
	WCI18121F3R9□ST-HF	3.9@7.96MHz	10,5	25@7.96MHz	135	0.60	750
	WCI18121F4R7□ST-HF	4.7@7.96MHz	10,5	25@7.96MHz	120	1.00	700
	WCI18121F5R6□ST-HF	5.6@7.96MHz	10,5	25@7.96MHz	110	0.55	650
	WCI18121F6R8□ST-HF	6.8@7.96MHz	10,5	25@7.96MHz	80	0.80	600
	WCI18121F8R2□ST-HF	8.2@7.96MHz	10,5	20@7.96MHz	70	0.85	600
	WCI18121F100□ST-HF	10@2.52MHz	10,5	20@7.96MHz	60	1.0	550
	WCI18121F120□ST-HF	12@2.52MHz	10,5	20@7.96MHz	55	1.1	550
	WCI18121F150□ST-HF	15@2.52MHz	10,5	18@2.52MHz	35	1.2	500
	WCI18121F180□ST-HF	18@2.52MHz	10,5	18@2.53MHz	29	1.2	500
	WCI18121F220□ST-HF	22@2.52MHz	10,5	18@2.54MHz	20	1.3	450
	WCI18121F270□ST-HF	27@2.52MHz	10,5	18@2.55MHz	20	1.5	400
	WCI18121F330□ST-HF	33@2.52MHz	10,5	18@2.56MHz	18	1.7	350
	WCI18121F390□ST-HF	39@2.52MHz	10,5	18@2.57MHz	14	1.8	350
	WCI18121F470□ST-HF	47@2.52MHz	10,5	16@2.52MHz	10	2.0	300
	WCI18121F560□ST-HF	56@2.52MHz	10,5	16@2.52MHz	10	2.2	390
	WCI18121F680□ST-HF	68@2.52MHz	10,5	12@2.52MHz	5.4	2.4	260
	WCI18121F820□ST-HF	82@2.52MHz	10,5	12@2.52MHz	5.2	2.8	240
	WCI18121F101□ST-HF	100@0.796MHz	10,5	12@0.796MHz	4.0	3.0	220
	WCI18121F121□ST-HF	120@0.796MHz	10,5	10@0.796MHz	3.3	3.3	220
	WCI18121F151□ST-HF	150@0.796MHz	10,5	10@0.796MHz	3.0	3.7	200
	WCI18121F181□ST-HF	180@0.796MHz	10,5	10@0.796MHz	3.0	4.5	200
	WCI18121F221□ST-HF	220@0.796MHz	10,5	10@0.796MHz	2.5	8.0	170
	WCI18121F271□ST-HF	270@0.796MHz	10,5	10@0.796MHz	2.2	8.5	160
	WCI18121F331□ST-HF	330@0.796MHz	10	10@0.796MHz	2.0	9.0	150
	WCI18121F391□ST-HF	390@0.796MHz	10	10@0.796MHz	1.8	9.5	130
	WCI18121F471□ST-HF	470@0.796MHz	10	8@0.796MHz	1.6	12.0	120
	WCI18121F561□ST-HF	560@0.796MHz	10	8@0.796MHz	1.5	12.5	110
	WCI18121F681□ST-HF	680@0.796MHz	10	8@0.796MHz	1.5	14.0	100
	WCI18121F751□ST-HF	750@0.796MHz	10	8@0.796MHz	1.5	14.5	95
WCI18121F821□ST-HF	820@0.796MHz	10	8@0.796MHz	1.5	15.0	95	
WCI18121F102□ST-HF	1000@0.796MHz	10	6@0.252MHz	1.4	16.5	90	

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