

HWI Series Wire Wound Chip Ceramic Inductors



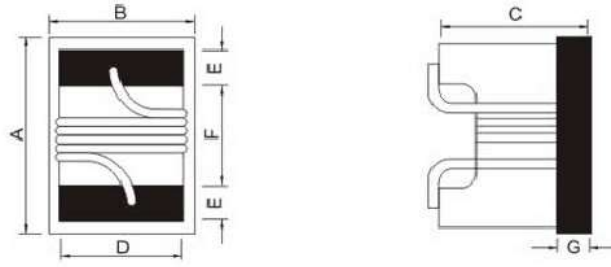
FEATURES

- ROHS and ROEACH compliant
- Ceramic body and wire wound construction provide high SRFs.
- Highest possible SRFs as well as excellent Q values.
- The non-magnetic coil form assures almost thermal stability, predictability and batch consistency.
- Designed for filtering, impedance matching, resonance and choke circuits for RF designer.

APPLICATIONS

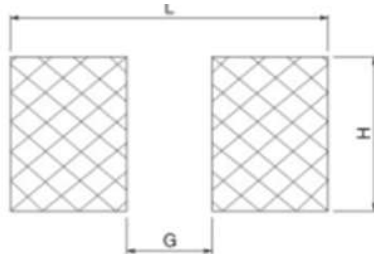
- RF products for cellular phone.
- GPS receiver, base station and Repeater
- Wireless LAN/Mouse/keyboard/earphone
- Remote control and Security syte

SHAPE AND DIMENSIONS



Part Number	Dimensions (mm)					
	A Max	B Max	C Max	D Max	E Max	F Max
HWI0402	1.19	0.66	0.66	0.60	0.30	0.50
HWI0603	1.80	1.20	1.10	0.85	0.40	0.92
HWI0805	2.30	1.70	1.45	1.38	0.60	1.03
HWI1008	2.80	2.70	2.10	2.20	0.60	1.50
HWI1210	3.50	2.90	2.25	2.50	0.60	2.20
HWI1812	4.80	3.40	3.15	2.60	0.70	3.00

RECOMMENDED PC BOARD PATTERN



Part Number	Dimensions (mm)		
	L	G	H
HWI0402	1.40	0.25	1.00
HWI0603	2.10	0.30	1.30
HWI0805	2.70	0.55	2.10
HWI1008	3.50	0.70	3.20
HWI1210	4.40	0.90	3.20
HWI1812	4.40	1.00	3.50

PRODUCT IDENTIFICATION

HWI 1008 — 068N K G I



- ① Series name
- ② Dimensions L×W
- ③ Inductance: 6N8-6.8nH 068N-68uH R68-680nH
- ④ Tolerance: J:±5% K: ±10% M: ±20%
- ⑤ Terminal: S-Sn terminal G-Gold terminal
- ⑥ Package: B:by bulk T: Tape and Reel

SPECIFICATIONS

●HWI0402 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0402-1N0□	1.0	J、K、L	10	250	3000	0.07	1000
HWI0402-2N0□	2.0		15		3000	0.07	960
HWI0402-2N2□	2.2		15		3000	0.10	750
HWI0402-2N7□	2.7		15		3000	0.12	640
HWI0402-3N3□	3.3		12		3000	0.10	800
HWI0402-3N6□	3.6		18		3000	0.10	800
HWI0402-3N9□	3.9		18		3000	0.10	800
HWI0402-4N7□	4.7		15		3000	0.20	750
HWI0402-5N1□	5.1		22		3000	0.15	750
HWI0402-5N6□	5.6		15		3000	0.10	700
HWI0402-6N8□	6.8		20		3000	0.15	650
HWI0402-7N5□	7.5		24		3000	0.11	650
HWI0402-8N2□	8.2		24		3000	0.11	650
HWI0402-9N0□	9.0		24		3000	0.18	650
HWI0402-010□	10		24		3000	0.28	480
HWI0402-012□	12		24		3000	0.12	600
HWI0402-015□	15		14		3000	0.25	550
HWI0402-022□	22		25		2750	0.40	380
HWI0402-027□	27		25		2430	0.45	380
HWI0402-030□	30		25		2350	0.50	380
HWI0402-033□	33	25	2350	0.65	380		

Specifications subject to change without notice. Please check our website for latest information.



Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0402-039□	39	J、K、L	24	250	2050	0.75	180
HWI0402-047□	47		20		2050	0.80	140
HWI0402-051□	51		25		1860	0.90	100
HWI0402-056□	56		25		1760	0.97	100
HWI0402-068□	68		24		1600	1.15	100
HWI0402-082□	82		24		1600	1.80	80
HWI0402-R10□	100		25		1600	2.60	60
HWI0402-R12□	120		25		1100	3.00	60

● HWI0603 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0603-6N8□	6.8	J、K	27	250	5800	0.110	700
HWI0603-8N2□	8.2	J、K	28	250	4600	0.120	700
HWI0603-010□	10	J、K	31	250	4800	0.130	700
HWI0603-012□	12	G、J	35	250	4000	0.130	700
HWI0603-015□	15	G、J	30	250	4000	0.150	700
HWI0603-018□	18	G、J	35	250	3100	0.170	700
HWI0603-022□	22	G、J	38	250	3000	0.190	700
HWI0603-027□	27	G、J	36	250	2800	0.220	600
HWI0603-033□	33	G、J	36	250	2300	0.220	600
HWI0603-039□	39	G、J	40	250	2200	0.250	600
HWI0603-047□	47	G、J	36	200	2000	0.280	600
HWI0603-082□	82	G、J	34	150	1700	0.550	400
HWI0603-R10□	100z	G、J	30	150	1400	0.630	400
HWI0603-R12□	120	G、J	32	150	1300	0.730	300
HWI0603-R15□	150	G、J	28	150	990	0.800	280
HWI0603-R18□	180	J、K	25	100	990	1.350	240
HWI0603-R22□	220	J、K	25	100	900	1.600	200
HWI0603-R27□	270	J、K	24	100	520	1.400	170
HWI0603-R33□	330	J、K	24	100	500	1.600	160
HWI0603-R39□	390	J、K	24	100	400	2.200	150



Specifications subject to change without notice. Please check our website for latest information.

Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

● HWI0805 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0805-5N6□	5.6	J、K	50	250	5500	0.065	600
HWI0805-6N8□	6.8		50	250	5500	0.110	600
HWI0805-8N2□	8.2		35	250	4700	0.200	600
HWI0805-010□	10		50	250	4200	0.150	600
HWI0805-012□	12		50	250	4000	0.150	600
HWI0805-015□	15		45	250	3400	0.170	600
HWI0805-018□	18		50	250	330	0.200	600
HWI0805-022□	22		55	250	2600	0.220	500
HWI0805-027□	27		55	250	2500	0.250	500
HWI0805-033□	33		55	250	2050	0.270	500
HWI0805-039□	39		55	250	2000	0.290	500
HWI0805-047□	47		55	200	1650	0.310	500
HWI0805-056□	56		55	200	1550	0.340	500
HWI0805-068□	68		55	200	1450	0.380	500
HWI0805-082□	82		55	150	1300	0.420	400
HWI0805-R10□	100		50	150	1200	0.460	400
HWI0805-R12□	120		45	150	1100	0.510	400
HWI0805-R15□	150		45	100	920	0.560	400
HWI0805-R18□	180		45	100	870	0.640	400
HWI0805-R22□	220		40	100	850	1.050	400
HWI0805-R27□	270		40	100	650	1.100	350
HWI0805-R33□	330		40	100	600	1.400	310
HWI0805-R39□	390		40	100	560	1.500	290
HWI0805-R47□	470		33	50	375	2.000	250
HWI0805-R56□	560		23	25	340	1.900	230
HWI0805-R68□	680		23	25	300	2.100	190
HWI0805-R75□	750		23	25	280	2.120	180
HWI0805-R82□	820		23	25	250	2.140	180
HWI0805-1R0□	1000		20	25	200	2.400	170
HWI0805-1R2□	1200		18	7.96	180	2.550	170
HWI0805-1R5□	1500	18	7.96	170	2.800	160	



Specifications subject to change without notice. Please check our website for latest information.

Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0805-1R8□	1800	J、K	18	7.96	140	3.800	150

● HWI1008 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1008-5N	5.6	G、J、K	30	250	6000	0.180	1000
HWI1008-8N	8.2		35	250	5000	0.050	1000
HWI1008-010	10		65	250	4100	0.080	1000
HWI1008-012	12		65	250	3300	0.090	1000
HWI1008-015	15		60	250	2500	0.150	1000
HWI1008-018	18		60	250	2500	0.110	1000
HWI1008-022	22		60	250	2400	0.120	1000
HWI1008-027	27		60	250	1600	0.130	1000
HWI1008-033	33		60	250	1600	0.140	1000
HWI1008-039	39		60	50	1500	0.150	1000
HWI1008-047	47		45	50	1500	0.160	1000
HWI1008-056	56		45	50	1100	0.1180	1000
HWI1008-068	68		45	50	1000	0.200	1000
HWI1008-082	82		45	50	1000	0.220	1000
HWI1008-R1	100		45	25	1000	0.560	650
HWI1008-R1	120		45	25	950	0.630	650
HWI1008-R1	150		45	25	800	0.700	580
HWI1008-R1	180		45	25	640	0.770	620
HWI1008-R2	220		45	25	620	0.840	500
HWI1008-R2	270		35	25	600	0.910	500
HWI1008-R3	330	35	25	500	1.050	450	
HWI1008-R3	390	45	25	480	1.120	470	
HWI1008-R4	470	45	25	450	1.190	470	
HWI1008-R5	560	45	25	415	1.330	400	
HWI1008-R6	680	45	25	375	1.470	400	
HWI1008-R7	750	45	25	300	1.540	400	
HWI1008-R8	820	45	25	250	1.610	400	
HWI1008-1R	1000	35	25	210	1.750	370	

Specifications subject to change without notice. Please check our website for latest information.



Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1008-1R	1200	J、K	30	7.9	200	2.000	310
HWI1008-1R	1500		20	7.9	180	2.300	330
HWI1008-1R	1800		20	7.9	160	2.600	300
HWI1008-2R	2200		20	7.9	90	2.800	280
HWI1008-2R	2700		22	7.9	80	3.200	290
HWI1008-3R	3300		22	7.9	70	3.400	290
HWI1008-3R	3900		23	7.9	60	3.600	260
HWI1008-4R	4700		23	7.9	60	4.000	260
HWI1008-5R	5600		24	7.9	55	7.600	240
HWI1008-6R	6800		24	7.9	50	8.200	200

● HWI1210 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1210-012	12	J、k	40	100	3200	0.080	1000
HWI1210-015	15		50	100	3200	0.100	1000
HWI1210-018	18		50	100	2800	0.100	1000
HWI1210-022	22		50	100	2200	0.100	1000
HWI1210-027	27		55	100	1800	0.110	1000
HWI1210-033	33		55	100	1800	0.110	1000
HWI1210-039	39		55	100	1800	0.120	1000
HWI1210-047	47		55	100	1500	0.130	1000
HWI1210-056	56		55	100	1450	0.140	1000
HWI1210-068	68		55	100	1200	0.150	900
HWI1210-082	82		55	100	1000	0.200	900
HWI1210-R1	100		55	100	900	0.210	850
HWI1210-R1	120		60	100	800	0.210	800
HWI1210-R1	150		60	100	780	0.250	750
HWI1210-R1	180		60	100	760	0.300	700
HWI1210-R2	220		60	100	650	0.320	670
HWI1210-R2	270		55	100	620	0.340	630
HWI1210-R3	330		45	100	600	0.380	590



Specifications subject to change without notice. Please check our website for latest information.

Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

Part Number	Inductance (nH)	Tolerance	Q_{min}	L、Q Test condition (MHz)	SRF_{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1210-R3	390	J、k	45	100	510	0.580	530
HWI1210-R4	470		45	100	500	0.800	490
HWI1210-R5	60		45	100	420	1.100	460
HWI1210-R6	680		45	100	400	1.200	430
HWI1210-R8	820		45	100	370	1.820	400
HWI1210-1R	1000		45	100	340	1.850	320
HWI1210-1R	1200		35	100	220	1.870	300
HWI1210-1R	1500		30	100	160	1.950	310
HWI1210-1R	1800		30	100	160	2.250	310
HWI1210-2R	2200		30	100	160	2.410	310
HWI1210-2R	2700		28	100	140	2.850	300
HWI1210-3R	3300		25	100	110	3.120	300
HWI1210-3R	3900		25	100	100	3.600	290
HWI1210-4R	4700		20	100	60	4.000	280
HWI1210-5R	5600		20	100	60	5.000	250
HWI1210-6R	6800		20	100	55	8.000	230

- HWI1812 TYPE

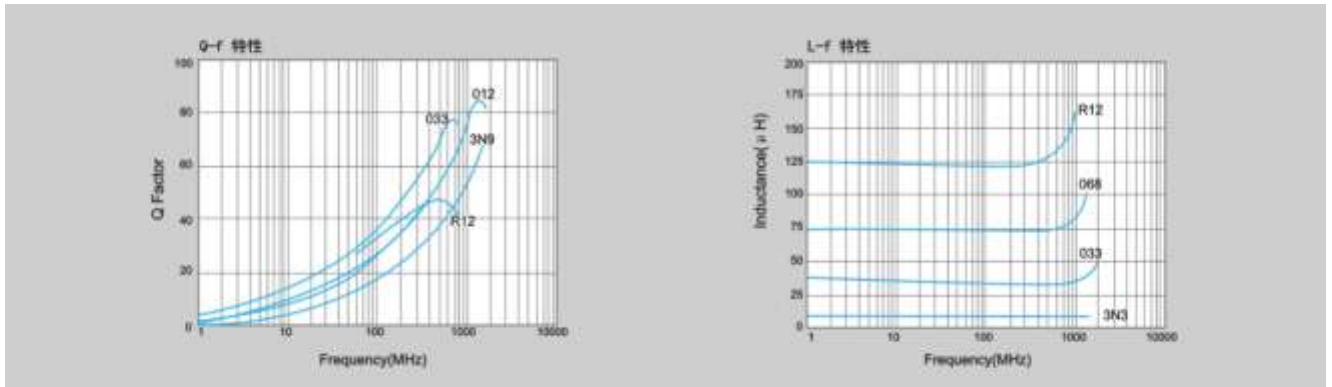
Part Number	Inductance (nH)	Tolerance	Q_{min}	L、Q Test condition (MHz)	SRF_{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1812-1R	1800	J、K	7.9	50	150	1.80	270
HWI1812-2R	2200		7.9	15	150	1.80	200
HWI1812-100	10000		7.9	10	50	8.00	150
HWI1812-270	27000		7.9	30	20	16.0	100



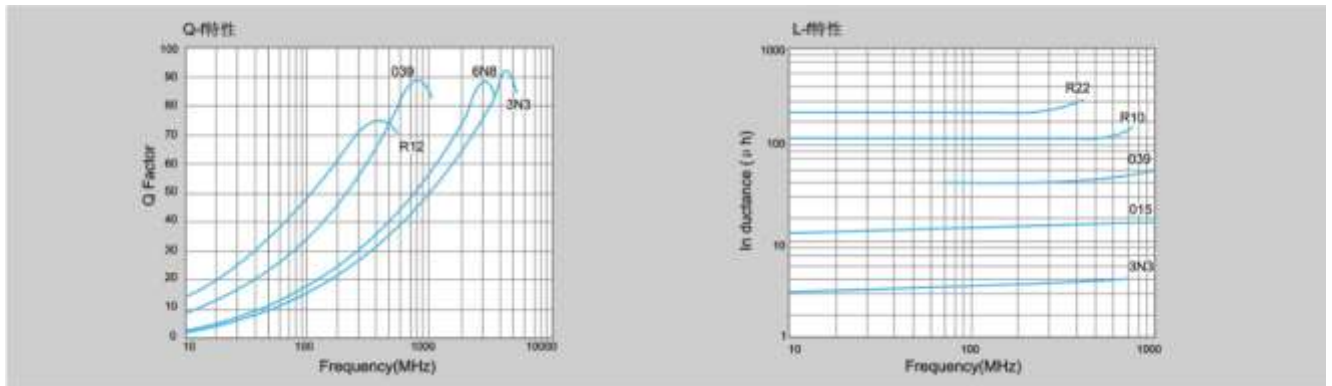
Specifications subject to change without notice. Please check our website for latest information.

Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com

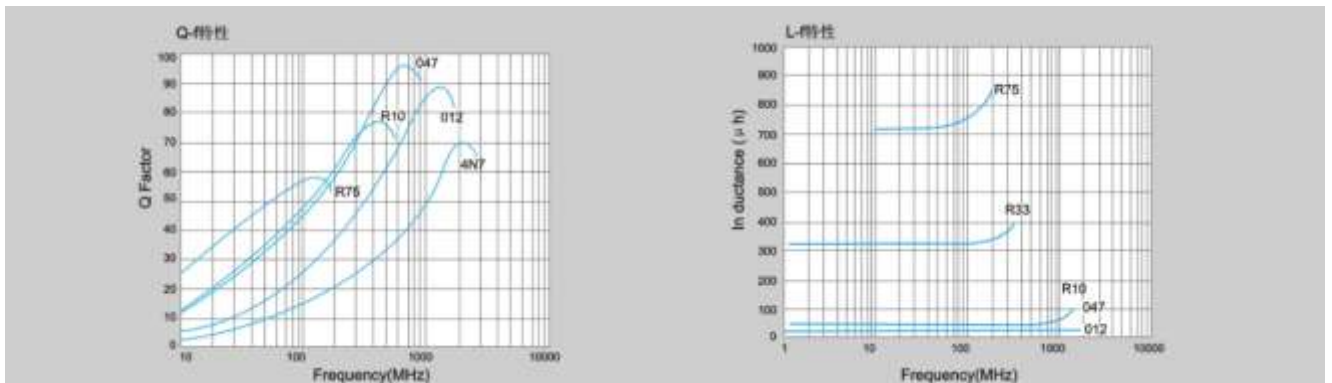
● HWI0603



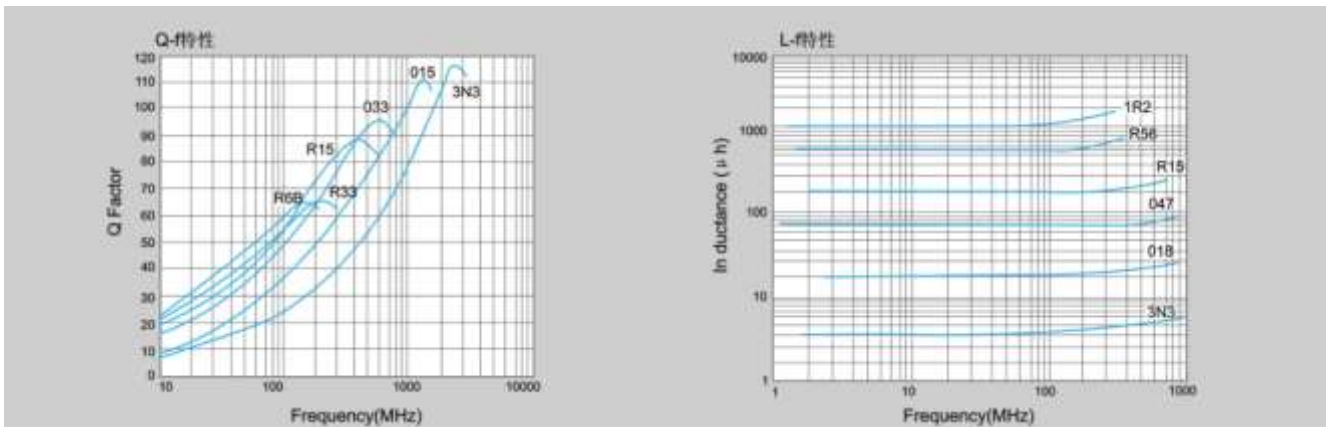
● HWI0805



● HWI1008



● HWI1210



Specifications subject to change without notice. Please check our website for latest information.

Tel: 0086-769-85016657 Fax: 0086-769-85016658 E-Mail: sales@ZXcompo.com www.zxcompo.com