

HWI Series Wire Wound Chip Ceramic Inductors



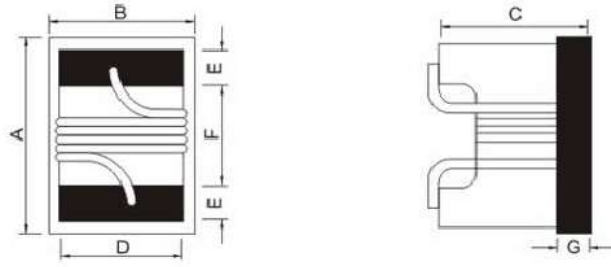
FEATURES

- 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

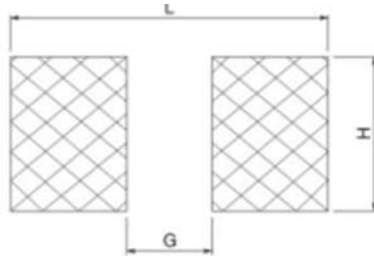
- RF products for cellular phone.
- GPS receiver, base station and Repeater
- Wireless LAN/Mouse/keyboard/earphone
- Remote control and Security syte

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 T



- 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/V)	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		

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Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz/V)	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/V)	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



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● HWI0805 TYPE

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



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Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI0805-1R8□	1800	J、K	18	7.96	50	140	3.800

● HWI1008 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1008-5N	5.6	G、J、K	30	250	1000	6000	0.180
HWI1008-8N	8.2		35	250	1000	5000	0.050
HWI1008-010	10		65	250	350	4100	0.080
HWI1008-012	12		65	250	350	3300	0.090
HWI1008-015	15		60	250	350	2500	0.150
HWI1008-018	18		60	250	350	2500	0.110
HWI1008-022	22		60	250	350	2400	0.120
HWI1008-027	27		60	250	350	1600	0.130
HWI1008-033	33		60	250	350	1600	0.140
HWI1008-039	39		60	50	350	1500	0.150
HWI1008-047	47		45	50	100	1500	0.160
HWI1008-056	56		45	50	100	1100	0.1180
HWI1008-068	68		45	50	100	1000	0.200
HWI1008-082	82		45	50	100	1000	0.220
HWI1008-R1	100		45	25	100	1000	0.560
HWI1008-R1	120		45	25	100	950	0.630
HWI1008-R1	150		45	25	100	800	0.700
HWI1008-R1	180		45	25	100	640	0.770
HWI1008-R2	220		45	25	100	620	0.840
HWI1008-R2	270		35	25	100	600	0.910
HWI1008-R3	330		35	25	100	500	1.050
HWI1008-R3	390		45	25	100	480	1.120
HWI1008-R4	470		45	25	100	450	1.190
HWI1008-R5	560		45	25	100	415	1.330
HWI1008-R6	680		45	25	100	375	1.470
HWI1008-R7	750		45	25	100	300	1.540
HWI1008-R8	820	45	25	100	250	1.610	
HWI1008-1R	1000	35	25	50	210	1.750	



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Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1008-1R	1200	J、K	30	7.9	50	200	2.000
HWI1008-1R	1500		20	7.9	50	180	2.300
HWI1008-1R	1800		20	7.9	50	160	2.600
HWI1008-2R	2200		20	7.9	50	90	2.800
HWI1008-2R	2700		22	7.9	50	80	3.200
HWI1008-3R	3300		22	7.9	25	70	3.400
HWI1008-3R	3900		23	7.9	25	60	3.600
HWI1008-4R	4700		23	7.9	25	60	4.000
HWI1008-5R	5600		24	7.9	25	55	7.600
HWI1008-6R	6800		24	7.9	25	50	8.200

● HWI1210 TYPE

Part Number	Inductance (nH)	Tolerance	Q _{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1210-012	12	J、k	40	100	300	3200	0.080
HWI1210-015	15		50	100	300	3200	0.100
HWI1210-018	18		50	100	300	2800	0.100
HWI1210-022	22		50	100	300	2200	0.100
HWI1210-027	27		55	100	300	1800	0.110
HWI1210-033	33		55	100	300	1800	0.110
HWI1210-039	39		55	100	300	1800	0.120
HWI1210-047	47		55	100	300	1500	0.130
HWI1210-056	56		55	100	300	1450	0.140
HWI1210-068	68		55	100	300	1200	0.150
HWI1210-082	82		55	100	300	1000	0.200
HWI1210-R1	100		55	100	300	900	0.210
HWI1210-R1	120		60	100	300	800	0.210
HWI1210-R1	150		60	100	300	780	0.250
HWI1210-R1	180		60	100	300	760	0.300
HWI1210-R2	220		60	100	300	650	0.320
HWI1210-R2	270		55	100	300	620	0.340
HWI1210-R3	330		45	100	150	600	0.380



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Part Number	Inductance (nH)	Tolerance	Q_{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1210-R3	390	J、k	45	100	150	510	0.580
HWI1210-R4	470		45	100	150	500	0.800
HWI1210-R5	60		45	100	150	420	1.100
HWI1210-R6	680		45	100	150	400	1.200
HWI1210-R8	820		45	100	150	370	1.820
HWI1210-1R	1000		45	100	150	340	1.850
HWI1210-1R	1200		35	100	150	220	1.870
HWI1210-1R	1500		30	100	50	160	1.950
HWI1210-1R	1800		30	100	50	160	2.250
HWI1210-2R	2200		30	100	50	160	2.410
HWI1210-2R	2700		28	100	25	140	2.850
HWI1210-3R	3300		25	100	25	110	3.120
HWI1210-3R	3900		25	100	25	100	3.600
HWI1210-4R	4700		20	100	25	60	4.000
HWI1210-5R	5600		20	100	7.9	60	5.000
HWI1210-6R	6800		20	100	7.9	55	8.000

● HWI1812 TYPE

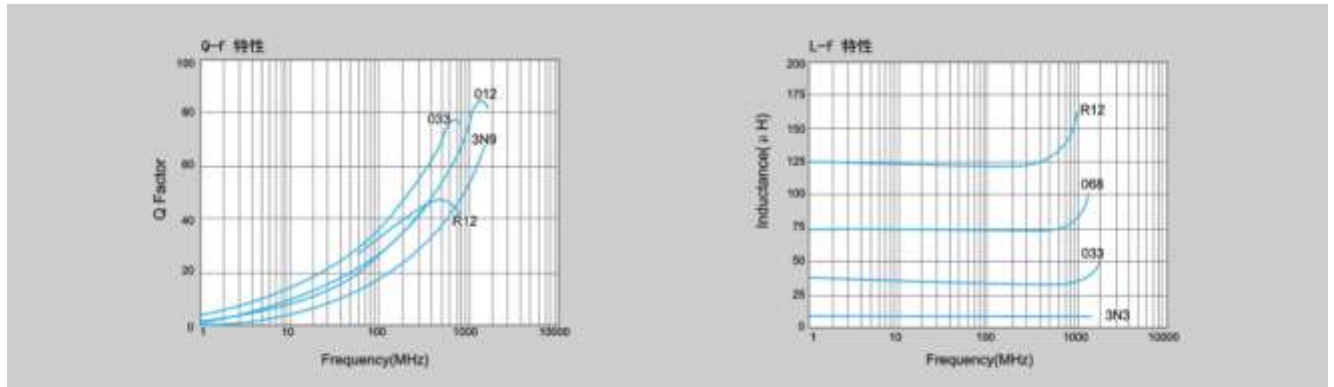
Part Number	Inductance (nH)	Tolerance	Q_{min}	L、Q Test condition (MHz/V)	SRF _{min} (MHz)	DCR Max(Ω)	Rated Current Max (mA)
HWI1812-1R	1800	J、K	7.9	50	50	150	1.80
HWI1812-2R	2200		7.9	15	50	150	1.80
HWI1812-100	10000		7.9	10	50	50	8.00
HWI1812-270	27000		7.9	30	10	20	16.0



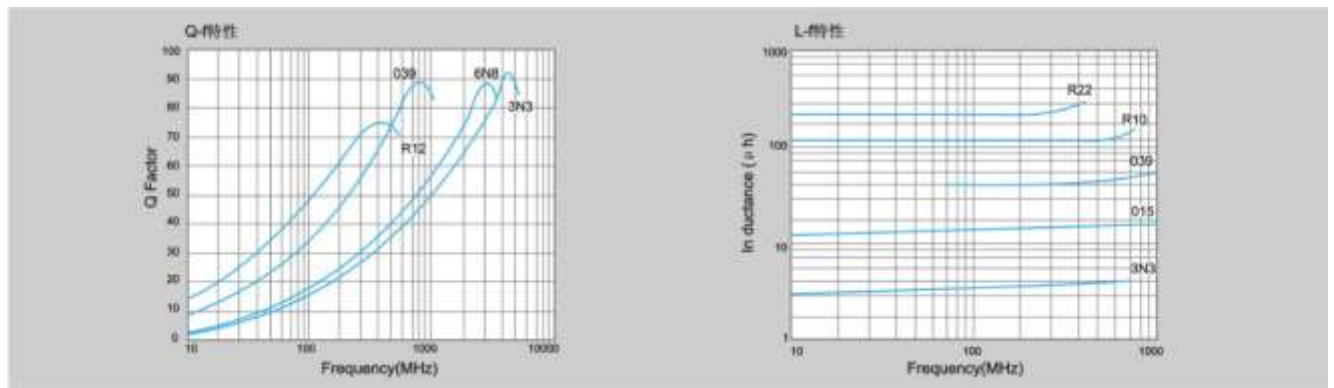
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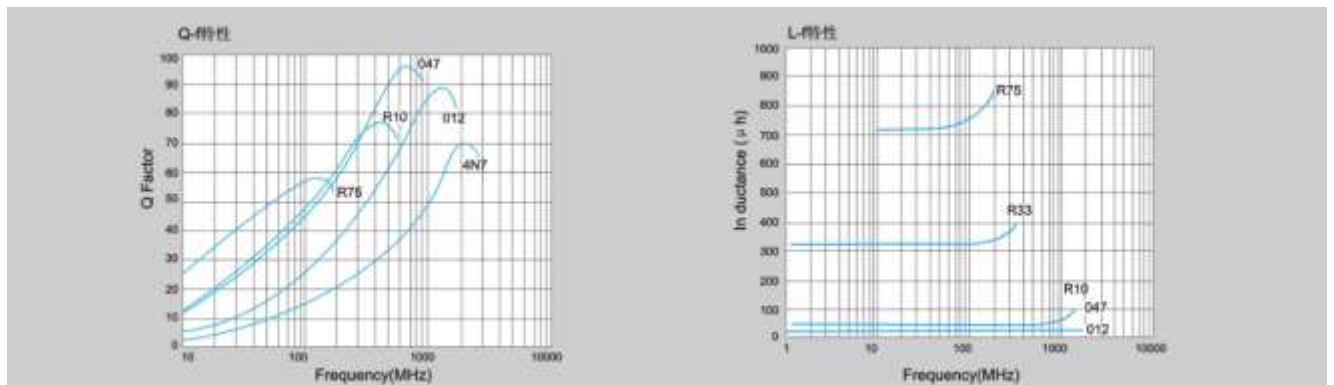
● FWI0603



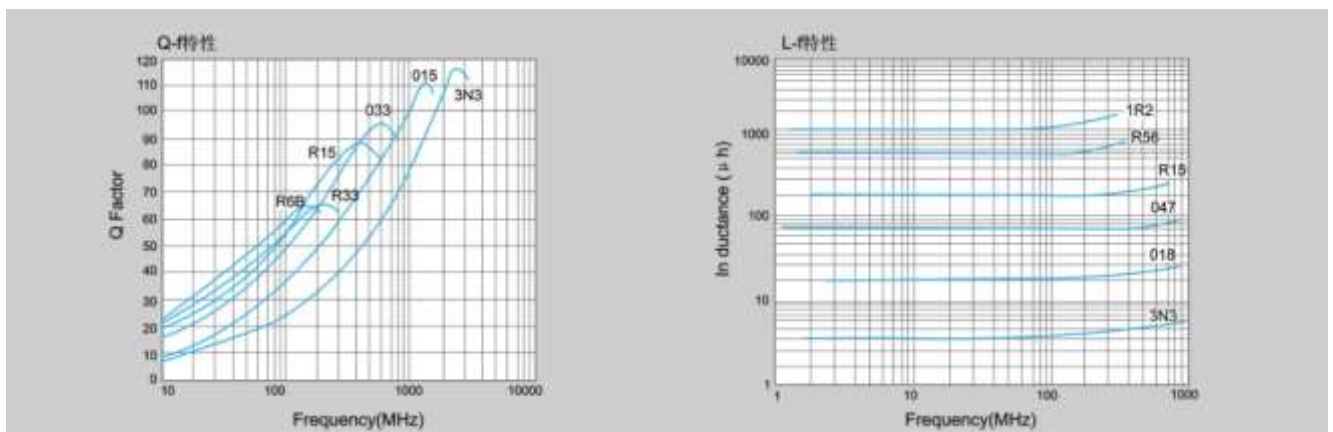
● FWI0805



● FWI1008



● FWI1008



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