

Wound Inductors HCWI HFWI 0402-1008Series



Features

- High frequency
- Highest possible SRFs as well as excellent Q values
- The wire is wound directly on the ceramic core at a precision pitch

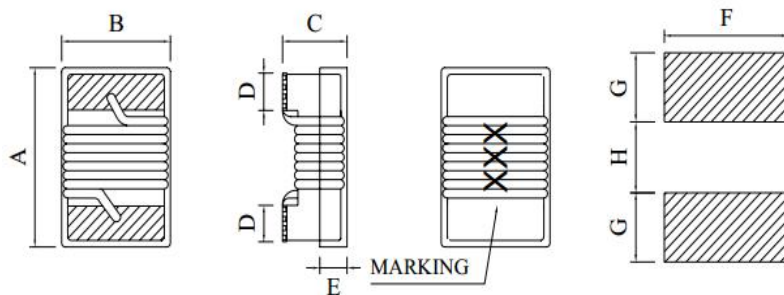
Application

- Pager, Cordless phone & High Freq. Communication Products. GPS

Tolerance

- (B \pm 0.2nH, S \pm 0.3nH, G \pm 2% ,J \pm 5%, K \pm 10%)

Configurations & Dimensions



Dimensions

Chip Size

Units:mm

TYPE	A	B	C	D	E	F	G	H
HCWI0402	1.0 \pm 0.1	0.55 \pm 0.1	0.5 \pm 0.1	0.2 \pm 0.1	0.2	0.66	0.36	0.46
HCWI0603	1.6 \pm 0.2	1.05 \pm 0.2	1.05 \pm 0.2	0.35 \pm 0.1	0.5	1.02	0.64	0.64
HCWI0805	2.0 \pm 0.2	1.25 \pm 0.2	1.20 \pm 0.2	0.4 \pm 0.1	0.6	1.78	1.02	0.76
HCWI1008	2.6 \pm 0.2	2.10 \pm 0.0	1.70 \pm 0.2	0.5 \pm 0.1	0.7	2.54	1.02	1.27
HFWI0805	2.0 \pm 0.2	1.25 \pm 0.2	1.20 \pm 0.2	0.4 \pm 0.1	0.6	1.78	1.02	0.76
HFWI1008	2.6 \pm 0.2	2.10 \pm 0.2	1.70 \pm 0.2	0.5 \pm 0.1	0.7	2.54	1.02	1.27

Wound Inductors(High Frequency)

HCWI 0402 Series



Specifications HCWI0402

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCWI0402-1N0□	1.0&250MHz	B, S	13.0	6000	0.045	1360
HCWI0402-1N2□	1.2&250MHz	B, S	13.0	6000	0.060	1360
HCWI0402-1N9□	1.9&250MHz	B, S	16.0	6000	0.070	1040
HCWI0402-2N0□	2.0&250MHz	B, S	16.0	6000	0.070	1040
HCWI0402-2N2□	2.2&250MHz	B, S	18.0	6000	0.070	960
HCWI0402-2N4□	2.4&250MHz	B, S	16.0	6000	0.068	790
HCWI0402-2N7□	2.7&250MHz	B, S	16.0	6000	0.120	860
HCWI0402-3N3□	3.3&250MHz	K, J, B	20.0	6000	0.066	840
HCWI0402-3N6□	3.6&250MHz	K, J, B	20.0	6000	0.066	840
HCWI0402-3N9□	3.9&250MHz	K, J, B	20.0	5800	0.066	840
HCWI0402-4N3□	4.3&250MHz	K, J, B	18.0	6000	0.091	700
HCWI0402-4N7□	4.7&250MHz	K, J, B	15.0	4775	0.130	640
HCWI0402-5N1□	5.1&250MHz	K, J, B	23.0	5800	0.083	800
HCWI0402-5N6□	5.6&250MHz	K, J, B	23.0	5800	0.083	760
HCWI0402-6N2□	6.2&250MHz	K, J, B	23.0	5800	0.083	760
HCWI0402-6N8□	6.8&250MHz	K, J, B	20.0	4800	0.083	680
HCWI0402-7N5□	7.5&250MHz	K, J, B	25.0	5800	0.104	680
HCWI0402-8N2□	8.2&250MHz	K, J, B	25.0	4400	0.104	680
HCWI0402-8N7□	8.7&250MHz	K, J, B	18.0	4100	0.200	480
HCWI0402-9N0□	9.0&250MHz	K, J, B	25.0	4160	0.104	680
HCWI0402-9N5□	9.5&250MHz	K, J, B	18.0	4000	0.200	680
HCWI0402-10N□	10&250MHz	K, J, G	23.0	3900	0.195	480
HCWI0402-11N□	11&250MHz	K, J, G	26.0	3680	0.120	640
HCWI0402-12N□	12&250MHz	K, J, G	26.0	3600	0.120	640
HCWI0402-13N□	13&250MHz	K, J, G	24.0	3450	0.210	560
HCWI0402-15N□	15&250MHz	K, J, G	26.0	3280	0.172	560
HCWI0402-16N□	16&250MHz	K, J, G	24.0	3100	0.220	560
HCWI0402-18N□	18&250MHz	K, J, G	25.0	3100	0.230	520
HCWI0402-19N□	19&250MHz	K, J, G	26.0	3040	0.202	480
HCWI0402-20N□	20&250MHz	K, J, G	25.0	3000	0.250	420
HCWI0402-22N□	22&250MHz	K, J, G	25.0	2800	0.300	400
HCWI0402-23N□	23&250MHz	K, J, G	26.0	2720	0.214	400
HCWI0402-24N□	24&250MHz	K, J, G	25.0	2700	0.300	400
HCWI0402-27N□	27&250MHz	K, J, G	26.0	2480	0.298	400
HCWI0402-30N□	30&250MHz	K, J, G	25.0	2350	0.300	400
HCWI0402-33N□	33&250MHz	K, J, G	24.0	2350	0.350	400
HCWI0402-36N□	36&250MHz	K, J, G	26.0	2320	0.403	320
HCWI0402-39N□	39&250MHz	K, J, G	25.0	2100	0.550	320
HCWI0402-40N□	40&250MHz	K, J, G	26.0	2240	0.438	320
HCWI0402-43N□	43&250MHz	K, J, G	25.0	2030	0.810	240
HCWI0402-47N□	47&200MHz	K, J, G	26.0	2100	0.830	210
HCWI0402-51N□	51&200MHz	K, J	25.0	1750	0.820	210
HCWI0402-56N□	56&200MHz	K, J	22.0	1760	0.970	200
HCWI0402-68N□	68&200MHz	K, J	22.0	1620	1.120	180
HCWI0402-82N□	82&150MHz	K, J	20.0	1500	1.250	150
HCWI0402-R10□	100&150MHz	K, J	20.0	1300	2.520	120
HCWI0402-R12□	120&150MHz	K, J	20.0	1100	2.660	110

Wound Inductors(High Frequency)

HCWI 0603 Series



Specifications HCWI0603

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCWI0603-1N6□	1.6&250MHz	B, S	24.0	12500	0.030	700
HCWI0603-1N8□	1.8&250MHz	B, S	16.0	12500	0.045	700
HCWI0603-2N0□	2.0&250MHz	B, S	16.0	6900	0.080	700
HCWI0603-3N9□	3.9&250MHz	B, S	22.0	6900	0.080	700
HCWI0603-4N3□	4.3&250MHz	B, S	22.0	5900	0.080	700
HCWI0603-4N7□	4.7&250MHz	B, S	20.0	5800	0.130	700
HCWI0603-5N1□	5.1&250MHz	K, J	20.0	5700	0.140	700
HCWI0603-5N6□	5.6&250MHz	K, J	16.0	5500	0.150	700
HCWI0603-6N8□	3.6&250MHz	K, J, B	30.0	5800	0.110	700
HCWI0603-7N5□	3.9&250MHz	K, J, B	28.0	4800	0.106	700
HCWI0603-8N2□	4.3&250MHz	K, J, B	30.0	4600	0.100	700
HCWI0603-8N7□	4.7&250MHz	K, J	28.0	4600	0.109	700
HCWI0603-9N1□	5.1&250MHz	K, J	28.0	4000	0.135	700
HCWI0603-9N5□	5.6&250MHz	K, J	28.0	4500	0.135	700
HCWI0603-10N□	10&250MHz	K, J, G	30.0	3800	0.130	700
HCWI0603-11N□	11&250MHz	K, J	33.0	4000	0.090	700
HCWI0603-12N□	12&250MHz	K, J, G	35.0	4000	0.130	700
HCWI0603-13N□	13&250MHz	K, J	38.0	4000	0.106	700
HCWI0603-15N□	15&250MHz	K, J, G	35.0	4000	0.170	700
HCWI0603-16N□	16&250MHz	K, J	34.0	3300	0.170	700
HCWI0603-18N□	18&250MHz	K, J, G	38.0	3100	0.170	700
HCWI0603-20N□	20&250MHz	K, J	38.0	3000	0.220	700
HCWI0603-22N□	22&250MHz	K, J, G	38.0	3000	0.220	700
HCWI0603-24N□	24&250MHz	K, J	37.0	2650	0.135	700
HCWI0603-27N□	27&250MHz	K, J, G	40.0	2800	0.220	600
HCWI0603-30N□	30&250MHz	K, J	45.0	2300	0.220	600
HCWI0603-33N□	33&250MHz	K, J, G	43.0	2300	0.220	600
HCWI0603-36N□	36&250MHz	K, J	43.0	2200	0.250	600
HCWI0603-39N□	39&250MHz	K, J, G	43.0	2200	0.250	600
HCWI0603-43N□	43&250MHz	K, J	38.0	2000	0.280	600
HCWI0603-47N□	47&200MHz	K, J, G	40.0	2000	0.280	600
HCWI0603-51N□	51&200MHz	K, J	40.0	1900	0.310	600
HCWI0603-56N□	56&200MHz	K, J, G	40.0	1900	0.310	600
HCWI0603-62N□	62&200MHz	K, J	40.0	1700	0.340	600
HCWI0603-68N□	68&200MHz	K, J, G	40.0	1700	0.340	600
HCWI0603-72N□	72&150MHz	K, J, G	35.0	1700	0.490	400
HCWI0603-82N□	82&150MHz	K, J, G	35.0	1700	0.540	400
HCWI0603-90N□	90&150MHz	K, J	35.0	1700	0.540	400
HCWI0603-R10□	100&150MHz	K, J, G	35.0	1400	0.630	400
HCWI0603-R11□	110&150MHz	K, J, G	35.0	1400	0.630	400
HCWI0603-R12□	120&150MHz	K, J, G	35.0	1300	0.650	300
HCWI0603-R13□	130&150MHz	K, J	35.0	1000	0.920	280
HCWI0603-R15□	150&150MHz	K, J, G	35.0	1000	0.920	280
HCWI0603-R18□	180&100MHz	K, J, G	30.0	1000	1.250	240
HCWI0603-R20□	200&100MHz	K, J	30.0	1000	1.250	240
HCWI0603-R21□	210&100MHz	K, J	27.0	1000	1.700	200
HCWI0603-R22□	220&100MHz	K, J, G	30.0	1000	1.700	200
HCWI0603-R24□	240&100MHz	K, J	30.0	1000	1.700	200
HCWI0603-R27□	270&100MHz	K, J, G	30.0	1000	1.800	170
HCWI0603-R33□	330&100MHz	K, J	25.0	450	2.000	150
HCWI0603-R39□	390&100MHz	K, J	20.0	350	2.000	170

Wound Inductors(High Frequency)

HCWI 0805 Series



Specifications HCWI0805

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCWI0805-2N2□	2. 2&250MHz	B, S	50&1GHz	6000	0. 060	800
HCWI0805-2N7□	2. 4&250MHz	B, S	35&1GHz	6000	0. 080	800
HCWI0805-3N3□	3. 3&250MHz	B, S	60&1GHz	6000	0. 080	800
HCWI0805-3N9□	3. 9&250MHz	B, S	60&1GHz	6000	0. 060	600
HCWI0805-4N7□	4. 7&250MHz	B, S	60&1GHz	5800	0. 060	600
HCWI0805-5N1□	5. 1&250MHz	K, J, B	60&1GHz	5800	0. 080	600
HCWI0805-5N6□	5. 6&250MHz	K, J, B	60&1GHz	5800	0. 080	600
HCWI0805-6N8□	6. 8&250MHz	K, J, B	60&1GHz	5500	0. 060	600
HCWI0805-8N2□	8. 2&250MHz	K, J, B	60&1GHz	5500	0. 060	600
HCWI0805-10N□	8. 7&250MHz	K, J, M	60&500MHz	4800	0. 080	600
HCWI0805-12N□	12&250MHz	K, J, G	60&500MHz	4100	0. 080	600
HCWI0805-15N□	15&250MHz	K, J, G	60&500MHz	3600	0. 080	600
HCWI0805-18N□	18&250MHz	K, J, G	60&500MHz	3400	0. 080	600
HCWI0805-22N□	22&250MHz	K, J, G	60&500MHz	3300	0. 100	600
HCWI0805-27N□	27&250MHz	K, J, G	60&500MHz	2600	0. 120	600
HCWI0805-33N□	33&250MHz	K, J, G	60&500MHz	2400	0. 150	500
HCWI0805-39N□	39&250MHz	K, J, G	60&500MHz	2100	0. 180	500
HCWI0805-47N□	47&200MHz	K, J, G	60&500MHz	1700	0. 150	500
HCWI0805-56N□	56&200MHz	K, J, G	60&500MHz	1600	0. 250	500
HCWI0805-68N□	68&200MHz	K, J, G	60&500MHz	1450	0. 270	500
HCWI0805-82N□	82&150MHz	K, J, G	60&500MHz	1350	0. 320	500
HCWI0805-R10□	100&150MHz	K, J, G	60&500MHz	1200	0. 430	500
HCWI0805-R12□	120&150MHz	K, J, G	50&250MHz	1100	0. 480	500
HCWI0805-R15□	150&100MHz	K, J, G	50&250MHz	950	0. 560	400
HCWI0805-R18□	180&100MHz	K, J, G	50&250MHz	900	0. 780	400
HCWI0805-R22□	220&100MHz	K, J, G	50&250MHz	860	1. 000	400
HCWI0805-R27□	270&100MHz	K, J, G	45&250MHz	850	1. 460	350
HCWI0805-R33□	330&100MHz	K, J, G	45&250MHz	800	1. 650	300
HCWI0805-R39□	390&100MHz	K, J, G	45&250MHz	780	2. 200	210

Wound Inductors(High Frequency)

HCWI 1008 Series



Specifications HCWI1008

Part Number	Inductance (nH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HCWI1008-3N3□	3.3&100MHz	B, S	50&1GHz	6000	0.060	1000
HCWI1008-6N8□	6.8&100MHz	K, J, B	50&1GHz	5500	0.060	1000
HCWI1008-8N2□	8.2&100MHz	K, J, B	50&1GHz	5500	0.060	1000
HCWI1008-10N□	8.7&100MHz	K, J, G	50&1GHz	4300	0.080	1000
HCWI1008-12N□	12&100MHz	K, J, G	60&500MHz	3600	0.080	1000
HCWI1008-15N□	15&100MHz	K, J, G	60&500MHz	2700	0.080	1000
HCWI1008-18N□	18&100MHz	K, J, G	60&350MHz	2700	0.100	1000
HCWI1008-22N□	22&100MHz	K, J, G	60&350MHz	2500	0.100	1000
HCWI1008-27N□	27&100MHz	K, J, G	60&350MHz	1800	0.100	1000
HCWI1008-33N□	33&100MHz	K, J, G	60&350MHz	1700	0.100	1000
HCWI1008-39N□	39&100MHz	K, J, G	60&350MHz	1500	0.100	1000
HCWI1008-47N□	47&100MHz	K, J, G	60&350MHz	1500	0.100	1000
HCWI1008-56N□	56&100MHz	K, J, G	60&350MHz	1350	0.120	1000
HCWI1008-68N□	68&100MHz	K, J, G	60&350MHz	1300	0.150	1000
HCWI1008-82N□	82&100MHz	K, J, G	60&350MHz	1100	0.180	1000
HCWI1008-R10□	100&100MHz	K, J, G	60&350MHz	1100	0.180	1000
HCWI1008-R12□	120&25MHz	K, J, G	45&100MHz	950	0.200	800
HCWI1008-R15□	150&25MHz	K, J, G	45&100MHz	880	0.220	800
HCWI1008-R18□	180&25MHz	K, J, G	45&100MHz	800	0.330	800
HCWI1008-R22□	220&25MHz	K, J, G	45&100MHz	730	0.450	800
HCWI1008-R27□	270&25MHz	K, J, G	45&100MHz	650	0.750	600
HCWI1008-R33□	330&25MHz	K, J, G	45&100MHz	570	0.900	500
HCWI1008-R39□	390&25MHz	K, J, G	45&100MHz	530	1.060	470
HCWI1008-R47□	470&25MHz	K, J, G	45&100MHz	480	1.170	420
HCWI1008-R56□	560&25MHz	K, J, G	45&100MHz	430	1.500	310
HCWI1008-R68□	680&25MHz	K, J, G	45&100MHz	380	2.060	230
HCWI1008-R75□	750&25MHz	K, J, G	45&100MHz	360	2.200	200
HCWI1008-R82□	820&25MHz	K, J, G	45&100MHz	350	2.300	180
HCWI1008-R91□	910&25MHz	K, J, G	45&100MHz	330	3.180	150
HCWI1008-1R0□	1000&25MHz	K, J, G	35&50MHz	310	3.300	120

Wound Inductors(High Frequency)

HFWI 0805 Series



Specifications HFWI0805

Part Number	Inductance (uH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HFWI0805-R47□	0.47±25MHz	J, K	45±100MHz	375	0.950	500
HFWI0805-R56□	0.56±25MHz	J, K	45±100MHz	340	1.100	450
HFWI0805-R68□	0.68±25MHz	J, K	45±100MHz	188	1.200	400
HFWI0805-R82□	0.82±25MHz	J, K	45±100MHz	215	1.500	300
HFWI0805-1R0□	1.0±7.96MHz	J, K	45±100MHz	200	2.130	180
HFWI0805-1R2□	1.2±7.96MHz	J, K	45±100MHz	200	2.380	150
HFWI0805-1R5□	1.5±7.96MHz	J, K	45±100MHz	200	2.900	130
HFWI0805-1R8□	1.8±7.96MHz	J, K	45±100MHz	120	3.000	120
HFWI0805-2R2□	2.2±7.96MHz	J, K	45±100MHz	110	3.100	110
HFWI0805-2R7□	2.7±7.96MHz	J, K	45±100MHz	100	3.500	100
HFWI0805-3R3□	3.3±7.96MHz	J, K	45±100MHz	70	2.300	210
HFWI0805-3R9□	3.9±7.96MHz	J, K	45±100MHz	60	2.500	200
HFWI0805-4R7□	4.7±7.96MHz	J, K	45±100MHz	50	2.800	180
HFWI0805-5R6□	5.6±7.96MHz	J, K	45±100MHz	45	3.000	160
HFWI0805-6R8□	6.8±7.96MHz	J, K	45±100MHz	45	3.200	130
HFWI0805-8R2□	8.2±7.96MHz	J, K	45±100MHz	40	3.500	120
HFWI0805-100□	10±2.52MHz	J, K	45±100MHz	40	3.000	80

Specifications HFWI1008

Part Number	Inductance (uH)	Tolerance (%)	Q min	SRF (MHz) min	DCR (Ω) max	Rated DC Current (mA) max
HFWI1008-1R2□	1.2±7.96MHz	J, K	20±7.96MHz	280	1.30	230
HFWI1008-1R5□	1.5±7.96MHz	J, K	20±7.96MHz	250	1.65	220
HFWI1008-1R8□	1.8±7.96MHz	J, K	20±7.96MHz	200	2.20	210
HFWI1008-2R2□	2.2±7.96MHz	J, K	20±7.96MHz	160	2.35	200
HFWI1008-2R7□	2.7±7.96MHz	J, K	20±7.96MHz	130	2.60	195
HFWI1008-3R3□	3.3±7.96MHz	J, K	20±7.96MHz	80	2.85	185
HFWI1008-3R9□	3.9±7.96MHz	J, K	20±7.96MHz	50	4.00	180
HFWI1008-4R7□	4.7±7.96MHz	J, K	20±7.96MHz	45	4.30	175
HFWI1008-5R6□	5.6±7.96MHz	J, K	20±7.96MHz	42	2.60	170
HFWI1008-6R8□	6.8±7.96MHz	J, K	20±7.96MHz	39	2.80	165
HFWI1008-8R2□	8.2±7.96MHz	J, K	20±7.96MHz	36	3.05	160
HFWI1008-100□	10±2.52MHz	J, K	15±2.52MHz	33	3.50	150
HFWI1008-120□	12±2.52MHz	J, K	15±2.52MHz	30	3.60	140
HFWI1008-150□	15±2.52MHz	J, K	15±2.52MHz	26	4.00	130
HFWI1008-180□	18±2.52MHz	J, K	15±2.52MHz	24	4.50	120
HFWI1008-220□	22±2.52MHz	J, K	15±2.52MHz	22	4.80	110
HFWI1008-270□	27±2.52MHz	J, K	15±2.52MHz	21	5.30	95
HFWI1008-330□	33±2.52MHz	J, K	15±2.52MHz	20	6.10	85
HFWI1008-390□	39±2.52MHz	J, K	15±2.52MHz	18	8.30	60
HFWI1008-470□	47±2.52MHz	J, K	15±2.52MHz	17	12.60	45