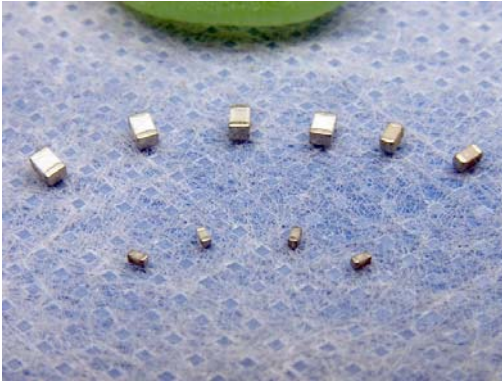


HIGH FREQUENCY CHIP INDUCTOR HCI SERIES

COMPONENT

PRODUCT IDENTIFICATION



HCIN 2012 - 47N J
A B C D

A : Small Size Multilayer Chip Inductor for High Frequency. High Q, Stable Inductance in High Freq. Range.

B : SIZE 2.0mm * 1.2mm

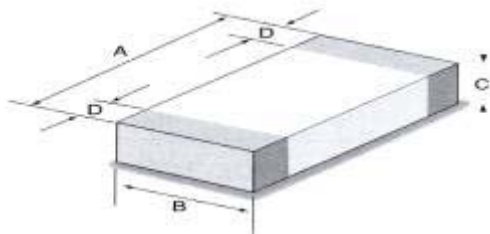
C : INDUCATANCE CODE

D : TOLERANCE : S \pm 0.3nH J: \pm 5% K: \pm 10%

APPLICATIONS

Wireless communications, cellular phone, cordless phone, pager, etc.. Miscellaneous high-frequency circuits. EMI countermeasure in high-frequency circuits.

SHAPES & DIMENSIONS



TYPE	A	B	C	D
1005(0402)	1.0 \pm 0.10	0.50 \pm 0.10	0.50 \pm 0.10	0.25 \pm 0.10
1608(0603)	1.6 \pm 0.15	0.8 \pm 0.15	0.8 \pm 0.15	0.30 \pm 0.20
2012(0805)	2.0 \pm 0.20	1.25 \pm 0.20	1.25 \pm 0.20	0.50 \pm 0.30
	2.0 \pm 0.20	1.25 \pm 0.20	0.85 \pm 0.20	0.50 \pm 0.30

HIGH FREQUENCY CHIP INDUCTOR HCI SERIES

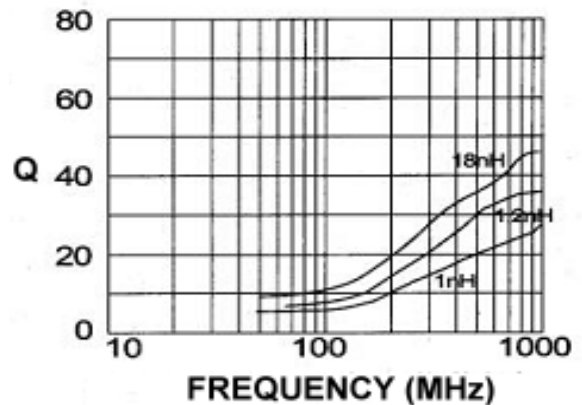
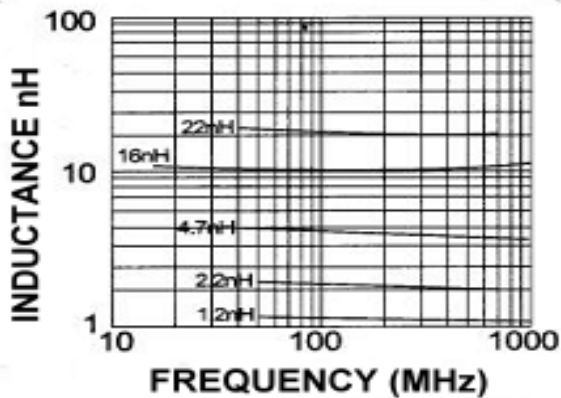
COMPONENT

ELECTRICAL CHARACTERISTICS

HCIN1005 SERIES

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Part No.	Thickness C size (mm)	Test Freq. (MHz)	L (nH)	Q(Typical)					Q Min	SRF (MHz)		DC Resistance (Ω)Max		Rated Current (mA)Max
				100 MHz	300 MHz	500 MHz	800 MHz	1000 MHz		Min	Typ.	Max	Typ.	
HCIN1005-1N0S	0.5±0.1	100	1.0	11	20	26	34	39	8	10000	>13000	0.12	0.04	300
HCIN1005-1N2S	0.5±0.1	100	1.2	11	20	26	34	39	8	10000	>13000	0.12	0.04	300
HCIN1005-1N5S	0.5±0.1	100	1.5	11	20	26	34	39	8	6000	>13000	0.13	0.05	300
HCIN1005-1N8S	0.5±0.1	100	1.8	11	18	24	30	35	8	6000	11000	0.14	0.06	300
HCIN1005-2N2S	0.5±0.1	100	2.2	10	17	24	29	35	8	6000	10000	0.16	0.07	300
HCIN1005-2N7S	0.5±0.1	100	2.7	10	17	23	29	34	8	6000	9000	0.17	0.08	300
HCIN1005-3N3□	0.5±0.1	100	3.3	10	17	23	28	34	8	6000	8000	0.19	0.10	300
HCIN1005-3N9□	0.5±0.1	100	3.9	10	17	23	28	33	8	4000	7000	0.22	0.12	300
HCIN1005-4N7□	0.5±0.1	100	4.7	10	17	23	28	33	8	4000	6000	0.24	0.12	300
HCIN1005-5N6□	0.5±0.1	100	5.6	10	17	22	28	33	8	4000	5700	0.27	0.15	300
HCIN1005-6N8□	0.5±0.1	100	6.8	10	16	22	27	33	8	3900	5500	0.32	0.17	250
HCIN1005-8N2□	0.5±0.1	100	8.2	10	17	22	28	32	8	3600	4900	0.37	0.21	250
HCIN1005-10N□	0.5±0.1	100	10	10	17	22	30	32	8	3200	4300	0.42	0.23	250
HCIN1005-12N□	0.5±0.1	100	12	11	18	24	31	34	8	2700	3900	0.50	0.28	250
HCIN1005-15N□	0.5±0.1	100	15	11	18	24	30	33	8	2300	3500	0.55	0.31	250
HCIN1005-18N□	0.5±0.1	100	18	11	18	24	30	32	8	2100	3100	0.65	0.35	200
HCIN1005-22N□	0.5±0.1	100	22	11	18	24	30	31	8	1900	2800	0.80	0.42	200
HCIN1005-27N□	0.5±0.1	100	27	11	18	22	27	29	8	1600	2300	0.90	0.47	200
HCIN1005-33N□	0.5±0.1	100	33	11	18	22	25	25	8	1300	1900	1.00	0.50	200
HCIN1005-39N□	0.5±0.1	100	39	11	18	22	23	23	8	1200	1700	1.20	0.52	150
HCIN1005-47N□	0.5±0.1	100	47	11	18	21	21	21	8	1500	1500	1.30	0.58	150



HIGH FREQUENCY CHIP INDUCTOR HCI SERIES

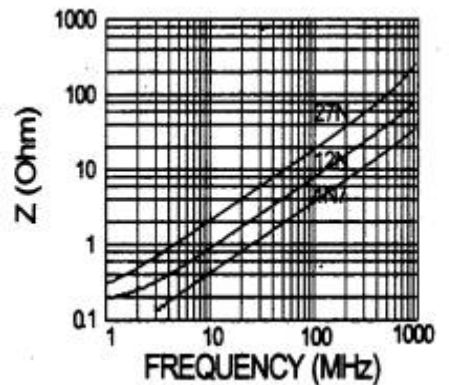
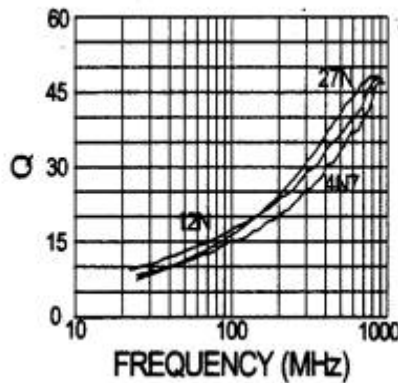
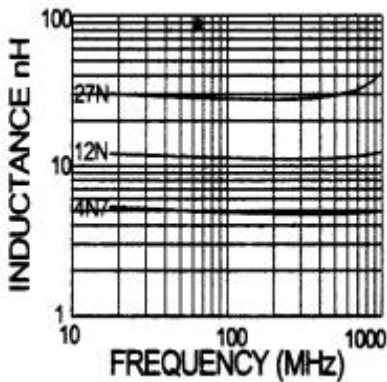
COMPONENT

ELECTRICAL CHARACTERISTICS

HCIN1608 SERIES

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Part No.	Thickness C size (mm)	Test Freq. (MHz)	L (nH)	Q(Typical)					Q Min	SRF (MHz)		DC Resistance (Ω)Max		Rated Current (mA)Max
				100 MHz	300 MHz	500 MHz	800 MHz	1000 MHz		Min	Typ.	Max	Typ.	
HCIN1608-1N0S	0.80±0.15	100	1.0	14	30	40	70	90	8	10000	>13000	0.05	0.015	300
HCIN1608-1N2S	0.80±0.15	100	1.2	14	30	40	70	90	8	10000	>13000	0.05	0.015	300
HCIN1608-1N5S	0.80±0.15	100	1.5	14	26	34	47	50	8	6000	>13000	0.10	0.03	300
HCIN1608-1N8S	0.80±0.15	100	1.8	10	18	24	30	34	8	6000	>13000	0.10	0.06	300
HCIN1608-2N2S	0.80±0.15	100	2.2	12	22	29	37	40	8	6000	12000	0.10	0.06	300
HCIN1608-2N7S	0.80±0.15	100	2.7	13	24	32	41	45	10	6000	11000	0.10	0.06	300
HCIN1608-3N3□	0.80±0.15	100	3.3	14	25	33	42	47	10	6000	9000	0.12	0.06	300
HCIN1608-3N9□	0.80±0.15	100	3.9	13	25	33	42	46	10	6000	8000	0.14	0.07	300
HCIN1608-4N7□	0.80±0.15	100	4.7	13	25	33	42	47	10	4000	6500	0.16	0.08	300
HCIN1608-5N6□	0.80±0.15	100	5.6	14	25	33	42	46	10	4000	5800	0.18	0.09	300
HCIN1608-6N8□	0.80±0.15	100	6.8	14	25	33	43	47	10	4000	5600	0.22	0.11	300
HCIN1608-8N2□	0.80±0.15	100	8.2	14	26	24	44	48	10	3500	5200	0.24	0.13	300
HCIN1608-10N□	0.80±0.15	100	10	14	26	34	43	47	12	3400	4600	0.26	0.16	300
HCIN1608-12N□	0.80±0.15	100	12	14	27	35	45	49	12	2600	4000	0.28	0.17	300
HCIN1608-15N□	0.80±0.15	100	15	15	28	37	46	51	12	2300	3400	0.32	0.20	300
HCIN1608-18N□	0.80±0.15	100	18	15	27	36	44	48	12	2000	3000	0.35	0.21	300
HCIN1608-22N□	0.80±0.15	100	22	16	28	36	44	47	12	1600	2900	0.40	0.25	300
HCIN1608-27N□	0.80±0.15	100	27	16	29	37	45	46	12	1400	2200	0.45	0.28	300
HCIN1608-33N□	0.80±0.15	100	33	17	31	40	46	47	12	1200	1800	0.55	0.35	300
HCIN1608-39N□	0.80±0.15	100	39	18	31	39	44	44	12	1100	1600	0.60	0.38	300
HCIN1608-47N□	0.80±0.15	100	47	17	28	34	35	34	12	900	1600	0.70	0.45	300
HCIN1608-56N□	0.80±0.15	100	56	17	28	34	34	31	12	900	1400	0.75	0.50	300
HCIN1608-68N□	0.80±0.15	100	68	18	29	34	30	22	12	700	1200	0.85	0.55	300
HCIN1608-82N□	0.80±0.15	100	82	18	28	33	27		12	600	1100	0.95	0.60	300
HCIN1608-R10□	0.80±0.15	100	100	18	27	28	16		12	600	1000	1.00	0.65	300



HIGH FREQUENCY CHIP INDUCTOR HCI SERIES

COMPONENT

ELECTRICAL CHARACTERISTICS

HCIN2012 SERIES

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Part No.	Thickness C size (mm)	Test Freq. (MHz)	L (nH)	Q(Typical)					Q Min	SRF (MHz)		DC Resistance (Ω)Max		Rated Current (mA)Max
				100 MHz	300 MHz	500 MHz	800 MHz	1000 MHz		Min	Typ.	Max	Typ.	
HCIN2012-1N5S	0.85±0.2	100	1.5	21	39	57	61	68	10	4000	>6000	0.10	0.02	300
HCIN2012-1N8S	0.85±0.2	100	1.8	18	35	49	55	59	10	4000	>6000	0.10	0.02	300
HCIN2012-2N2S	0.85±0.2	100	2.2	18	33	46	53	58	10	4000	>6000	0.10	0.03	300
HCIN2012-2N7S	0.85±0.2	100	2.7	19	36	50	56	60	12	4000	>6000	0.10	0.03	300
HCIN2012-3N3□	0.85±0.2	100	3.3	16	29	40	47	51	12	4000	>6000	0.13	0.04	300
HCIN2012-3N9□	0.85±0.2	100	3.9	18	33	46	54	60	12	4000	>6000	0.15	0.05	300
HCIN2012-4N7□	0.85±0.2	100	4.7	18	34	46	55	60	12	3500	>6000	0.20	0.05	300
HCIN2012-5N6□	0.85±0.2	100	5.6	20	38	51	60	66	15	3200	5400	0.23	0.05	300
HCIN2012-6N8□	0.85±0.2	100	6.8	20	39	52	63	69	15	2800	4200	0.25	0.06	300
HCIN2012-8N2□	0.85±0.2	100	8.2	21	40	54	63	70	15	2400	3700	0.28	0.07	300
HCIN2012-10N□	0.85±0.2	100	10	20	38	51	60	67	15	2100	3100	0.30	0.09	300
HCIN2012-12N□	0.85±0.2	100	12	21	39	52	60	67	15	1900	3000	0.35	0.10	300
HCIN2012-15N□	0.85±0.2	100	15	22	42	55	63	72	15	1600	2600	0.40	0.11	300
HCIN2012-18N□	0.85±0.2	100	18	24	43	57	63	72	15	1500	2300	0.45	0.13	300
HCIN2012-22N□	0.85±0.2	100	22	23	43	55	60	69	18	1400	2100	0.50	0.15	300
HCIN2012-27N□	0.85±0.2	100	27	23	42	53	58	68	18	1300	1800	0.55	0.17	300
HCIN2012-33N□	0.85±0.2	100	33	24	43	54	55	60	18	1200	1700	0.60	0.19	300
HCIN2012-39N□	0.85±0.2	100	39	23	41	50	47	47	18	1000	1400	0.65	0.25	300
HCIN2012-47N□	0.85±0.2	100	47	23	41	49	43	41	18	900	1200	0.70	0.26	300
HCIN2012-56N□	0.85±0.2	100	56	23	42	48	39	38	18	800	1100	0.75	0.28	300
HCIN2012-68N□	0.85±0.2	100	68	25	42	45	30	-	18	700	900	0.80	0.33	300
HCIN2012-82N□	0.85±0.2	100	82	24	41	41	-	-	18	600	800	0.90	0.37	300
HCIN2012-R10□	1.25±0.2	100	100	23	37	37	-	-	18	600	800	0.90	0.40	300
HCIN2012-R12□	1.25±0.2	50	120	22	33	29	-	-	13	500	700	0.95	0.43	300
HCIN2012-R15□	1.25±0.2	50	150	22	34	26	-	-	13	500	700	1.00	0.46	300
HCIN2012-R18□	1.25±0.2	50	180	23	34	20	-	-	13	400	600	1.10	0.50	300
HCIN2012-R22□	1.25±0.2	50	220	20	23	-	-	-	12	350	550	1.20	0.75	300
HCIN2012-R27□	1.25±0.2	50	270	20	19	-	-	-	12	350	480	1.30	0.85	300
HCIN2012-R33□	1.25±0.2	50	330	22	15	-	-	-	12	250	400	1.40	0.90	300
HCIN2012-R39□	1.25±0.2	50	390	17	12	-	-	-	10	250	400	1.30	0.85	300
HCIN2012-R47□	1.25±0.2	50	470	17	-	-	-	-	10	200	350	1.50	0.95	300

