

High Frequency Multilayer Chip Inductor

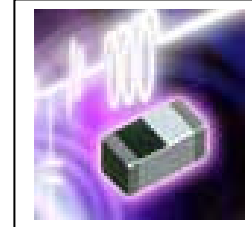
-----KCHI Series

Feature:

1. Multilayer inductor made of advanced ceramics with low-resistivity silver used as internal conductors provides excellent Q and SRF characteristics.
2. Designed to address surface mount inductor needs for applications above 100MHz.
3. Monolithic structure ensures outstanding reliability , high productivity and product quality.

Application

1. Portable telephone, PHS, cordless telephone and pagers
2. Miscellaneous high-frequency circuits
3. EMI countermeasure in high-frequency circuits.



Available type

KCHI1005: 1.0nH – 120nH

KCHI1608: 1.0nH – 270nH

KCHI2012: 1.0nH – 470nH

Identification

K	C	H	I	1	0	0	5	H	1	0	N	S	T
1	2	3	4	5	6								

1. Series name
2. Type
3. Material code
4. Inductance (2N2: 2.2nH; 10N: 10nH; R10: 100nH)
5. Tolerance (S: $\pm 0.3nH$; D: $\pm 0.5nH$; J: $\pm 5\%$; K: $\pm 10\%$)
6. Package (T: Taping B: bulk)

KCHI 1005 TYPE

Kingcera P/N	L (nH)	Tolerance	Q min	L,Q test Freq. (MHz)	Q(Typical) @ F(MHz)			SRF		DCR max ()	Ir max (mA)
					Q100	Q800	Q1800	min (MHz)	Typ. (MHz)		
KCHI1005H1N0	1.0	$\pm 0.3nH$	8	100	10	34	65	10000	>13000	0.12	300
KCHI1005H1N2	1.2		8	100	10	34	65	10000	>13000	0.12	300
KCHI1005H1N5	1.5		8	100	10	34	65	>6000	>13000	0.13	300
KCHI1005H1N8	1.8		8	100	10	30	60	>6000	12000	0.14	300
KCHI1005H2N2	2.2		8	100	9	29	56	>6000	11000	0.16	300
KCHI1005H2N7	2.7		8	100	9	28	50	>6000	11000	0.17	300
KCHI1005H3N3	3.3		8	100	9	28	49	>6000	10000	0.19	300
KCHI1005H3N9	3.9		8	100	9	28	47	>6000	9000	0.22	300
KCHI1005H4N7	4.7		8	100	9	28	46	>6000	8000	0.24	300
KCHI1005H5N6	5.6	$\pm 0.5nH$	8	100	9	27	46	5500	6000	0.27	300
KCHI1005H6N8	6.8		8	100	9	28	46	5000	6000	0.32	250
KCHI1005H8N2	8.2		8	100	9	30	45	4000	5000	0.37	250
KCHI1005H10N	10.	$\pm 5\%$ or $\pm 10\%$	8	100	9	29	44	3600	4900	0.42	250
KCHI1005H12N	12.		8	100	10	27	45	3400	4600	0.47	250
KCHI1005H15N	15.		8	100	10	28	40	3000	4000	0.50	250
KCHI1005H18N	18.		8	100	10	26	27	2500	3600	0.55	250
KCHI1005H22N	22.		8	100	10	28	26	2000	3400	0.65	200
KCHI1005H27N	27.		8	100	10	27	23	1800	2800	0.80	200
KCHI1005H33N	33.		8	100	10	25	22	1600	2600	1.00	200
KCHI1005H39N	39.		8	100	10	24	20	1500	2400	1.30	150
KCHI1005H47N	47.		8	100	10	23	17	1300	2100	1.50	150
KCHI1005H56N	56.		8	100	10	21	10	1200	1900	1.60	150
KCHI1005H68N	68.		8	100	10	19	-	1100	1600	1.80	150
KCHI1005H82N	82.		8	100	9	16	-	1000	1300	2.00	100
KCHI1005HR10	100.		8	100	9	10	-	900	1100	2.30	100
KCHI1005HR12	120.		8	100	9	8	-	800	1000	2.50	100

KCHI 1608 TYPE

Kingcera P/N	L (nH)	Tolerance	Q min	L,Q test Freq. (MHz)	Q(Typical) @ F(MHz)			SRF		DCR max ()	Ir max (mA)
					Q100	Q800	Q1800	min (MHz)	Typ. (MHz)		
KCHI1608H1N0	1.0	± 0.3nH	8	100	13	70	126	10000	>13000	0.05	500
KCHI1608H1N2	1.2		8	100	13	70	113	10000	>13000	0.05	500
KCHI1608H1N5	1.5		8	100	13	47	110	10000	>13000	0.10	500
KCHI1608H1N8	1.8		8	100	13	37	107	6000	>13000	0.10	500
KCHI1608H2N2	2.2		8	100	13	37	106	6000	>13000	0.10	500
KCHI1608H2N7	2.7		10	100	13	41	88	6000	12000	0.10	500
KCHI1608H3N3	3.3		10	100	14	42	80	6000	11000	0.12	500
KCHI1608H3N9	3.9		10	100	14	42	75	6000	10000	0.14	500
KCHI1608H4N7	4.7		10	100	12	42	70	6000	9000	0.16	500
KCHI1608H5N6	5.6	± 0.5nH	10	100	12	42	70	6000	8000	0.18	500
KCHI1608H6N8	6.8		10	100	12	43	70	5500	6500	0.22	500
KCHI1608H8N2	8.2		10	100	13	44	74	4500	5500	0.24	500
KCHI1608H10N	10.	± 5% or ± 10%	12	100	14	43	61	3500	4700	0.26	300
KCHI1608H12N	12.		12	100	14	45	60	3000	4200	0.28	300
KCHI1608H15N	15.		12	100	14	46	52	2800	4100	0.32	300
KCHI1608H18N	18.		12	100	13	44	33	2500	3500	0.35	300
KCHI1608H22N	22.		12	100	14	44	28	2000	3200	0.40	300
KCHI1608H27N	27.		12	100	15	45	20	2000	2900	0.45	300
KCHI1608H33N	33.		12	100	15	46	20	1800	2700	0.55	300
KCHI1608H39N	39.		12	100	15	44	18	1600	2400	0.60	300
KCHI1608H47N	47.		12	100	16	35	12	1400	2100	0.70	300
KCHI1608H56N	56.		12	100	17	34		1300	2000	0.75	300
KCHI1608H68N	68.		12	100	16	30		1300	1900	0.85	300
KCHI1608H82N	82.		12	100	15	27		1100	1700	0.95	300
KCHI1608HR10	100.		12	100	15	16		1000	1500	1.10	300
KCHI1608HR12	120.		8	50	15			900	1300	1.20	300
KCHI1608HR15	150.		8	50	15			800	1300	1.20	300
KCHI1608HR18	180.		8	50	17			600	1200	1.30	300

KCHI 2012 TYPE

Kingcera P/N	L (nH)	Tolerance	Q min	L,Q test Freq. (MHz)	Q(Typical) @ F(MHz)			SRF		DCR max ()	Ir max (mA)
					Q100	Q800	Q1800	min (MHz)	Typ. (MHz)		
KCHI2012H1N5	1.5	± 0.3nH	10	100	21	61	100	>6000	>6000	0.10	500
KCHI2012H1N8	1.8		10	100	20	55	92	>6000	>6000	0.10	500
KCHI2012H2N2	2.2		10	100	20	53	90	>6000	>6000	0.10	500
KCHI2012H2N7	2.7		12	100	18	56	92	>6000	>6000	0.10	500
KCHI2012H3N3	3.3		12	100	18	54	83	>6000	>6000	0.13	500
KCHI2012H3N9	3.9		12	100	18	54	90	>6000	>6000	0.15	500
KCHI2012H4N7	4.7		12	100	18	55	68	5500	>6000	0.20	500
KCHI2012H5N6	5.6		± 0.5nH	15	100	18	60	68	4500	5800	0.23
KCHI2012H6N8	6.8	15		100	18	63	68	3500	5000	0.25	500
KCHI2012H8N2	8.2	15		100	20	63	70	3000	4000	0.28	500
KCHI2012H10N	10	± 5% or ± 10%	15	100	21	60	70	2800	3800	0.30	500
KCHI2012H12N	12		15	100	20	60	70	2600	3800	0.35	500
KCHI2012H15N	15		15	100	20	63	50	2500	3600	0.40	500
KCHI2012H18N	18		15	100	22	63	46	2200	3000	0.45	300
KCHI2012H22N	22		18	100	19	60	29	2000	3000	0.50	300
KCHI2012H27N	27		18	100	19	58	18	1700	2400	0.55	300
KCHI2012H33N	33		18	100	19	55	10	1500	2100	0.60	300
KCHI2012H39N	39		18	100	19	47	6	1300	1900	0.65	300
KCHI2012H47N	47		18	100	23	43		1000	1600	0.70	300
KCHI2012H56N	56		18	100	19	39		900	1500	0.75	300
KCHI2012H68N	68		18	100	19	30		900	1500	0.80	300
KCHI2012H82N	82		18	100	19			800	1400	0.90	300
KCHI2012HR10	100		18	100	19			800	1300	0.90	300
KCHI2012HR12	120		13	50	19			700	1200	0.95	300
KCHI2012HR15	150		13	50	19			700	1100	1.20	300
KCHI2012HR18	180		13	50	19			500	800	1.30	300
KCHI2012HR22	220		12	50	20			400	700	1.50	300
KCHI2012HR27	270		12	50	20			400	600	1.80	300