ADB Technology Co., Ltd.

Ceramic Chip Inductors / CHL Series

Feature

Monolithic structure

Closed magnetic circuit avoids crosstalk

S.M.T. type

Suitable for flow and reflow soldering

Shapes and dimensions follow E.I.A. SPEC

Available in various sizes

Excellent soldering ability and heat resistance

High S.R.F. up to 6 GHz and above

Application

Wireless communications,cellular phone,cordless phone,pager,etc.

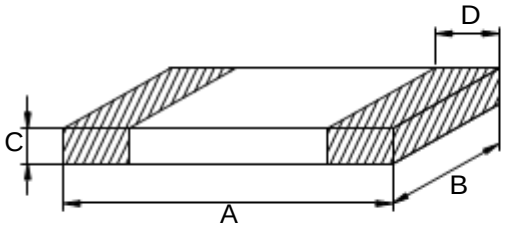
Miscellaneous high-frequency circuits.EMI countermeasure in high-frequency circuits.

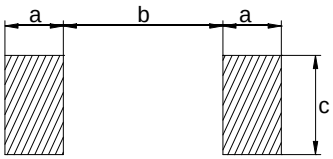
Product Identification

CHL	2012	10N	J
1	2	3	4

1. Series name.
2. Dimension.
3. Inductance.
4. Tolerance. (S=±0.3nH,J=5%,K=10%)

Configurations & Dimensions





PCB Pattern

Series Name	A	B	C	D	a	b	c
CHL 0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05	0.2(REF)	0.3(REF)	0.3(REF)
CHL 1005	1.0 ± 0.1	0.5 ± 0.1	0.5 ± 0.1	0.25 ± 0.1	0.35(REF)	0.5(REF)	0.55(REF)
CHL 1608	1.6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.3 ± 0.2	0.4(REF)	1.0(REF)	0.85(REF)
CHL 2012 **Unit: mm**	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2 1.25 ± 0.2	0.5 ± 0.3	0.6(REF)	1.0(REF)	1.3(REF)

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Electrical Characteristics

CHL1005 Series					
Part Number	**Inductance (nH)**	**Q Value Min**	**Test Frequency (MHz)**	**DC Resistance Max. (mΩ)**	**Rated Current Max. (mA)**
CHL1005-1N0 __	1.0	8	100	90	300
CHL1005-1N2 __	1.2	8	100	90	300
CHL1005-1N3 __	1.3	8	100	100	400
CHL1005-1N5 __	1.5	8	100	120	300
CHL1005-1N8 __	1.8	8	100	120	300
CHL1005-2N0 __	2.0	8	100	140	300
CHL1005-2N2 __	2.2	8	100	150	400
CHL1005-2N7 __	2.7	8	100	140	300
CHL1005-3N0 __	3.0	8	100	160	300
CHL1005-3N3 __	3.3	8	100	160	300
CHL1005-3N9 __	3.9	8	100	190	300
CHL1005-4N7 __	4.7	8	100	210	300
CHL1005-5N1 __	5.1	8	100	260	300
CHL1005-5N6 __	5.6	8	100	230	300
CHL1005-6N8 __	6.8	8	100	250	300
CHL1005-8N2 __	8.2	8	100	280	300
CHL1005-10N __	10	8	100	310	300
CHL1005-12N __	12	8	100	400	300
CHL1005-15N __	15	8	100	500	300
CHL1005-18N __	18	8	100	550	300
CHL1005-22N __	22	8	100	600	300
CHL1005-27N __	27	8	100	700	300
CHL1005-33N __	33	8	100	800	300
CHL1005-39N __	39	8	100	1000	200
CHL1005-47N __	47	8	100	1200	200
CHL1005-56N __	56	8	100	1300	200
CHL1005-68N __	68	8	100	2000	180
CHL1005-82N __	82	8	100	2200	150
CHL1005-R10 __	100	8	100	2500	150
CHL1005-R12 __	120	8	100	2700	150
CHL1005-R27 __	270	8	100	4500	100

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Ceramic Chip Inductors / CHL Series

Electrical Characteristics

CHL1608 Series					
Part Number	**Inductance (nH)**	**Q Value Min**	**Test Frequency (MHz)**	**DC Resistance Max. (mΩ)**	**Rated Current Max. (mA)**
CHL 1608-1N0 __	1.0	8	100	50	300
CHL 1608-1N2 __	1.2	8	100	50	300
CHL 1608-1N5 __	1.5	8	100	100	300
CHL 1608-1N8 __	1.8	8	100	100	300
CHL 1608-2N2 __	2.2	8	100	100	300
CHL 1608-2N7 __	2.7	10	100	100	300
CHL 1608-3N3 __	3.3	10	100	120	300
CHL 1608-3N9 __	3.9	10	100	140	300
CHL 1608-4N7 __	4.7	10	100	160	300
CHL 1608-5N6 __	5.6	10	100	180	300
CHL 1608-6N8 __	6.8	10	100	220	300
CHL 1608-8N2 __	8.2	10	100	240	300
CHL 1608-10N __	10	12	100	260	300
CHL 1608-12N __	12	12	100	280	300
CHL 1608-15N __	15	12	100	320	300
CHL 1608-18N __	18	12	100	350	300
CHL 1608-22N __	22	12	100	400	300
CHL 1608-27N __	27	12	100	450	300
CHL 1608-33N __	33	12	100	550	300
CHL 1608-39N __	39	12	100	600	300
CHL 1608-47N __	47	12	100	700	300
CHL 1608-56N __	56	12	100	750	300
CHL 1608-68N __	68	12	100	850	300
CHL 1608-82N __	82	12	100	950	300
CHL 1608-R10 __	100	12	100	1000	300
CHL 1608-R12 __	120	8	50	1200	300
CHL 1608-R15 __	150	8	50	1200	300
CHL 1608-R18 __	180	8	50	1300	300
CHL 1608-R22 __	220	8	50	1500	300
CHL 1608-R27 __	270	8	50	1900	150
CHL 1608-R33 __	330	8	50	2800	150
CHL 1608-R39 __	390	8	50	3200	150
CHL 1608-R47 __	470	8	50	3600	150

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Ceramic Chip Inductors / CHL Series

Electrical Characteristics

CHL2012 Series					
Part Number	**Inductance (nH)**	**Q Value Min**	**Test Frequency (MHz)**	**DC Resistance Max. (mΩ)**	**Rated Current Max. (mA)**
CHL 2012-1N5 __	1.5	10	100	100	300
CHL 2012-1N8 __	1.8	10	100	100	300
CHL 2012-2N2 __	2.2	10	100	100	300
CHL 2012-2N7 __	2.7	12	100	100	300
CHL 2012-3N3 __	3.3	12	100	130	300
CHL 2012-3N9 __	3.9	12	100	150	300
CHL 2012-4N7 __	4.7	12	100	200	300
CHL 2012-5N6 __	5.6	15	100	230	300
CHL 2012-6N8 __	6.8	15	100	250	300
CHL 2012-8N2 __	8.2	15	100	280	300
CHL 2012-10N __	10	15	100	300	300
CHL 2012-12N __	12	15	100	350	300
CHL 2012-15N __	15	15	100	400	300
CHL 2012-18N __	18	15	100	450	300
CHL 2012-22N __	22	18	100	500	300
CHL 2012-27N __	27	18	100	550	300
CHL 2012-33N __	33	18	100	600	300
CHL 2012-39N __	39	18	100	650	300
CHL 2012-47N __	47	18	100	700	300
CHL 2012-56N __	56	18	100	750	300
CHL 2012-68N __	68	18	100	800	300
CHL 2012-82N __	82	18	100	900	300
CHL 2012-R10 __	100	18	100	900	300
CHL 2012-R12 __	120	13	50	950	300
CHL 2012-R15 __	150	13	50	100	300
CHL 2012-R18 __	180	13	50	1100	300
CHL 2012-R22 __	220	12	50	1200	300
CHL 2012-R27 __	270	12	50	1300	300
CHL 2012-R33 __	330	12	50	1400	300
CHL 2012-R39 __	390	10	50	1300	300
CHL 2012-R47 __	470	10	50	1500	300

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Ceramic Chip Inductors / CHL Series

Electrical Characteristics

CHL2012 Series					
Part Number	Inductance (nH)	Q Value Min	Test Frequency (MHz)	DC Resistance Max. (mΩ)	Rated Current Max. (mA)
CHL 0603-1N0S	1.0	4	100	110	470
CHL 0603-1N2S	1.2	4	100	120	300
CHL 0603-1N5S	1.5	4	100	130	300
CHL 0603-1N8S	1.8	4	100	160	300
CHL 0603-2N0S	2.0	4	100	170	300
CHL 0603-2N2S	2.2	4	100	190	300
CHL 0603-2N4S	2.4	4	100	200	300
CHL 0603-2N7S	2.7	4	100	210	300
CHL 0603-3N0S	3.0	4	100	220	300
CHL 0603-3N3 S	3.3	4	100	230	300
CHL 0603-3N6S	3.6	4	100	250	300
CHL 0603-3N9S	3.9	4	100	270	300
CHL 0603-4N3S	4.3	4	100	300	300
CHL 0603-4N7S	4.7	4	100	300	300
CHL 0603-5N1S	5.1	4	100	330	300
CHL 0603-5N6S	5.6	4	100	360	300
CHL 0603-6N2S	6.2	4	100	380	300
CHL 0603-6N8J	6.8	4	100	390	300
CHL 0603-7N5J	7.5	4	100	410	300
CHL 0603-8N2J	8.2	4	100	450	300
CHL 0603-9N1J	9.1	4	100	480	300
CHL 0603-10NJ	10	4	100	510	300
CHL 0603-12NJ	12	4	100	680	300
CHL 0603-15NJ	15	4	100	710	300
CHL 0603-18NJ	18	4	100	810	300
CHL 0603-22NJ	22	4	100	1000	300
CHL 0603-27NJ	27	4	100	1350	300
CHL 0603-33NJ	33	4	100	1470	300
CHL 0603-39NJ	39	4	100	1720	300
CHL 0603-47NJ	47	4	100	1900	300
CHL 0603-56NJ	56	4	100	2270	300
CHL 0603-68NJ	68	4	100	2660	300
CHL 0603-82NJ	82	4	100	3370	300
CHL 0603-R10J	100	4	100	3740	300