

ADB Technology Co., Ltd.

Wire Wound Ceramic Chip Inductors / CHCL Series

Feature

Ceramic core wire wound construction.
 Used for high frequency up to GHz and stable Inductance at high frequency.
 The high self resonant frequency realizes high Q value.
 Small footprint as well as profile.
 All support Lead-Free Parts.

Application

Noise suppression for high frequency...
 Computer and peripheral products
 Consumer electronic products
 Communication electronic products especially for pagers, Cellular phone etc...
 GPS (Global position System)
 Measuring instruments.

Product Identification

CHCL 2012 R10 K

1 2 3 4

1. Series name.

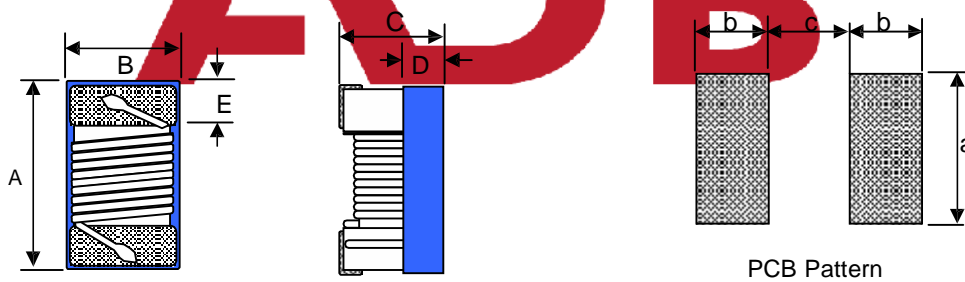
2. Dimension.

3. Inductance.

4. Tolerance.

(G=2%,J=5%,K=10%)

Configurations & Dimensions



PCB Pattern

Series Name	A	B	C	D	E	a	b	c
CHCL1005	1.19(MAX)	0.70(MAX)	0.66(MAX)	0.25(MAX)	0.23(REF)	0.66(REF)	0.36(REF)	0.46(REF)
CHCL1608	1.80(MAX)	1.20(MAX)	1.20(MAX)	0.45(MAX)	0.33(REF)	1.02(REF)	0.64(REF)	0.64(REF)
CHCL2012	2.40(MAX)	1.65(MAX)	1.45(MAX)	0.65(MAX)	0.44(REF)	1.78(REF)	1.02(REF)	0.76(REF)
CHCL2520	2.90(MAX)	2.54(MAX)	2.10(MAX)	1.20(MAX)	0.45(REF)	2.54(REF)	1.02(REF)	1.27(REF)

Unit: mm

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Electrical Characteristics

<i>CHCL 1005 Series</i>										
Part Number	Inductance		Q Value Min.	900MHz		1.7GHz		SRF (GHz) Min.	DCR () Max.	Rated Current (mA) Max.
	nH/ MHz	Tolerance		Inductance Typ.	Q Value Typ.	Inductance Typ.	Q Value Typ.			
CHCL 1005-1N0__	1.0 /250	J,K	16	1.02	77	1.02	69	12.7	0.045	1360
CHCL 1005-1N9__	1.9 /250	J,K	16	1.72	68	1.74	82	11.3	0.070	1040
CHCL 1005-2N0__	2.0 /250	J,K	16	1.93	54	1.93	75	11.1	0.072	1040
CHCL 1005-2N2__	2.2 /250	J,K	19	2.19	59	2.23	100	10.8	0.080	960
CHCL 1005-2N4__	2.4 /250	J,K	15	2.24	51	2.27	68	10.5	0.070	790
CHCL 1005-2N7__	2.7/250	J,K	16	2.58	42	2.60	61	10.4	0.120	640
CHCL 1005-3N3__	3.3 /250	J,K	19	3.10	65	3.12	87	7	0.070	840
CHCL 1005-3N6__	3.6 /250	J,K	19	3.56	45	3.62	71	6.8	0.070	840
CHCL 1005-3N9__	3.9 /250	J,K	19	3.89	50	4.00	75	6	0.070	840
CHCL 1005-4N3__	4.3/250	J,K	18	4.19	47	4.30	71	6	0.091	700
CHCL 1005-4N7__	4.7/250	J,K	15	4.55	48	4.68	68	4.77	0.130	640
CHCL 1005-5N1__	5.1 /250	J,K	20	5.15	56	5.25	82	4.8	0.085	800
CHCL 1005-5N6__	5.6 /250	J,K	20	5.16	54	5.28	81	4.8	0.085	760
CHCL 1005-6N2__	6.2 /250	J,K	20	6.16	52	6.37	76	4.8	0.085	760
CHCL 1005-6N8__	6.8 /250	J,K	20	6.56	63	6.93	78	4.8	0.085	680
CHCL 1005-7N5__	7.5 /250	J,K	22	7.91	60	8.22	88	4.8	0.110	680
CHCL 1005-8N2__	8.2 /250	J,K	22	8.50	57	8.85	84	4.4	0.110	680
CHCL 1005-8N7__	8.7 /250	J,K	18	8.87	54	9.21	73	4.1	0.200	480
CHCL 1005-9N0__	9.0 /250	J,K	22	9.07	62	9.53	78	4.16	0.110	680
CHCL 1005-9N5__	9.5 /250	J,K	18	9.42	54	9.98	69	4	0.200	480
CHCL 1005-10N__	10 /250	J,K	21	9.80	50	10.10	67	3.9	0.210	480
CHCL 1005-12N__	12 /250	J,K	24	11.90	53	12.70	71	3.6	0.13	640
CHCL 1005-15N__	15 /250	J,K	24	14.60	55	15.50	77	3.28	0.175	560
CHCL 1005-18N__	18 /250	J,K	25	18.30	57	20.28	62	3.1	0.235	420
CHCL 1005-20N__	20 /250	J,K	25	20.70	52	23.66	53	3	0.250	420

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	nH/ MHz	Tolerance		Inductance Typ.	Q Value Typ.	Inductance Typ.	Q Value Typ.			
CHCL 1005-22N__	22 /250	J,K	25	23.20	53	26.75	53	2.8	0.310	400
CHCL 1005-24N__	24 /250	J,K	25	25.10	51	29.50	50	2.7	0.310	400
CHCL 1005-27N__	27 /250	J,K	24	28.70	49	33.50	63	2.48	0.310	400
CHCL 1005-30N__	30 /250	J,K	25	31.10	46	38.50	39	2.35	0.310	400
CHCL 1005-33N__	33 /250	J,K	24	34.90	31	41.74	32	2.35	0.410	400
CHCL 1005-36N__	36 /250	J,K	24	39.50	44	48.40	53	2.32	0.440	320
CHCL 1005-39N__	39 /250	J,K	25	41.70	47	50.23	45	2.1	0.550	200
CHCL 1005-43N__	43 /250	J,K	25	45.80	46	61.55	34	2.03	0.815	100
CHCL 1005-47N__	47 /250	J,K	20	50.00	38	-	-	2.1	0.830	150
CHCL 1005-51N__	51 /250	J,K	25	56.60	40	-	-	1.75	0.820	100
CHCL 1005-56N__	56 /250	J,K	22	62.80	42	-	-	1.76	0.970	100
CHCL 1005-68N__	68 /250	J,K	22	78.2	36	-	-	1.62	1.120	100
CHCL 1005-82N__	82 /250	J,K	20	-	-	-	-	1.26	1.550	50
CHCL 1005-R10__	100 /250	J,K	20	-	-	-	-	1.16	2.000	30

※ Please specify the inductance tolerance : J,K

※ Rated current that will cause temperature rise approximate 20°C without core loss.

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Electrical Characteristics

CHCL 1608 Series										
Part Number	Inductance		Q Value / MHz Min.	900MHz		1.7GHz		SRF (MHz) Min.	DCR () Max.	Rated Current (mA) Max.
	nH/ MHz	Tolerance		Inductance Typ.	Q Value Typ.	Inductance Typ.	Q Value Typ.			
CHCL 1608-1N6__	1.6/250	J,K	24/250	1.61	72.9	1.61	89.61	12,500	0.030	700
CHCL 1608-1N8__	1.8/250	J,K	16/250	1.77	46.6	1.77	59.72	12,500	0.045	700
CHCL 1608-2N2__	2.2/250	J,K	13/250	2.14	26.03	2.13	34.11	12,500	0.250	700
CHCL 1608-3N3__	3.3/250	J,K	30/250	3.42	73.5	3.46	95.36	5,900	0.045	700
CHCL 1608-3N6__	3.6/250	J,K	22/250	3.68	64.2	3.73	82.77	5,900	0.065	700
CHCL 1608-3N9__	3.9/250	J,K	22/250	3.90	50.1	3.94	67.32	6,900	0.080	700
CHCL 1608-4N3__	4.3/250	J,K	22/250	4.44	67.5	4.59	81.57	5,900	0.065	700
CHCL 1608-4N7__	4.7/250	J,K	20/250	4.65	58.8	4.75	75.36	5,800	0.085	700
CHCL 1608-5N1__	5.1/250	J,K	20/250	5.07	54.5	5.21	70.06	5,700	0.115	700
CHCL 1608-5N6__	5.6/250	J,K	18/250	5.48	43.7	5.66	55.16	5,800	0.160	700
CHCL 1608-6N3__	6.3/250	J,K	26/250	6.54	68.7	6.71	88.51	5,700	0.115	700
CHCL 1608-6N8__	6.8/250	J,K	27/250	6.89	62.9	7.08	82.33	5,800	0.125	700
CHCL 1608-7N5__	7.5/250	J,K	28/250	7.57	65.2	7.84	85.57	4,800	0.115	700
CHCL 1608-8N2__	8.2/250	J,K	30/250	8.13	65.0	8.47	82.23	4,700	0.125	700
CHCL 1608-8N7__	8.7/250	J,K	28/250	8.76	63.9	9.22	76.37	4,600	0.109	700
CHCL 1608-9N5__	9.5/250	J,K	28/250	9.79	62.3	10.58	69.16	5,400	0.145	700
CHCL 1608-10N__	10/250	G,J,K	31/250	10.36	69.22	10.81	90.90	4,800	0.145	700
CHCL 1608-12N__	12/250	G,J,K	35/250	12.37	69.26	13.22	83.39	4,000	0.145	700
CHCL 1608-15N__	15/250	G,J,K	35/250	15.22	76.65	16.37	88.93	4,000	0.180	700
CHCL 1608-16N__	16/250	G,J,K	34/250	16.60	79.11	18.38	79.94	3,300	0.170	700
CHCL 1608-18N__	18/250	G,J,K	35/250	18.44	76.19	20.05	80.07	3,100	0.180	700
CHCL 1608-22N__	22/250	G,J,K	38/250	22.66	78.78	25.67	83.99	3,000	0.205	700

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	nH/ MHz	Tolerance		Inductance Typ.	Q Value Typ.	Inductance Typ.	Q Value Typ.			
CHCL 1608-24N	24/250	G,J,K	36/250	25.74	70.93	31.01	63.21	2,650	0.205	700
CHCL 1608-27N	27/250	G,J,K	40/250	29.03	59.83	37.43	46.06	2,800	0.220	600
CHCL 1608-30N	30/250	G,J,K	37/250	32.91	68.96	41.66	59.67	2,250	0.220	600
CHCL 1608-33N	33/250	G,J,K	40/250	35.72	61.57	47.39	50.44	2,300	0.240	600
CHCL 1608-36N	36/250	G,J,K	37/250	39.45	64.02	50.92	59.84	2,080	0.250	600
CHCL 1608-39N	39/250	G,J,K	40/250	42.71	61.22	58.42	47.55	2,200	0.260	600
CHCL 1608-43N	43/250	G,J,K	38/250	47.21	62.53	64.17	53.05	2,000	0.280	600
CHCL 1608-47N	47/200	G,J,K	38/200	51.82	52.98	77.03	39.17	2,000	0.280	600
CHCL 1608-56N	56/200	G,J,K	38/200	64.38	51.47	108.1	28.82	1,900	0.310	600
CHCL 1608-68N	68/200	G,J,K	37/200	80.23	44.33	174.0	18.31	1,700	0.340	600
CHCL 1608-72N	72/150	G,J,K	34/150	86.67	41.11	212.9	15.59	1,700	0.490	400
CHCL 1608-82N	82/150	G,J,K	34/150	101.2	37.88	300.6	11.78	1,700	0.540	400
CHCL 1608-R10	100/150	G,J,K	34/150	126.9	36.13	-	-	1,400	0.580	400
CHCL 1608-R12	120/150	G,J,K	32/150	166.8	28.57	-	-	1,300	0.750	300
CHCL 1608-R15	150/150	G,J,K	28/250	234.9	21.92	-	-	990	0.920	280
CHCL 1608-R18	180/100	G,J,K	25/100	289.1	19.93	-	-	990	1.250	240
CHCL 1608-R22	220/100	G,J,K	25/100	-	-	-	-	900	1.700	200
CHCL 1608-R27	270/100	G,J,K	24/100	-	-	-	-	900	2.000	170
CHCL 1608-R33	330/100	G,J,K	25/100	-	-	-	-	900	2.750	100
CHCL 1608-R39	390/100	G,J,K	25/100	-	-	-	-	900	3.150	100
CHCL 1608-R47	470/100	G,J,K	25/100	-	-	-	-	750	4.000	80

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CHCL 2012 Series						
Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR () Max.	Rated Current (mA) Max.
	nH / MHz	Tolerance				
CHCL 2012-2N8 _	2.8/250	J,K	70/1,500	7900	0.06	800
CHCL 2012-3N0 _	3.0/250	J,K	55/1,500	7900	0.08	800
CHCL 2012-3N3 _	3.3/250	J,K	45/1,500	7900	0.12	600
CHCL 2012-5N6 _	5.6/250	J,K	65/1000	5,500	0.08	600
CHCL 2012-6N8 _	6.8/250	J,K	50/1,000	5500	0.11	600
CHCL 2012-7N5 _	7.5/250	J,K	50/1,000	4,500	0.14	600
CHCL 2012-8N2 _	8.2/250	J,K	50/1,000	4700	0.16	600
CHCL 2012-10N _	10/250	G,J,K	60/500	4,200	0.10	600
CHCL 2012-12N _	12/250	G,J,K	50/500	4000	0.15	600
CHCL 2012-15N _	15/250	G,J,K	50/500	3,400	0.17	600
CHCL 2012-18N _	18/250	G,J,K	50/500	3300	0.20	500
CHCL 2012-22N _	22/250	G,J,K	55/500	2,600	0.22	500
CHCL 2012-24N _	24/250	G,J,K	50/500	2000	0.22	500
CHCL 2012-27N _	27/250	G,J,K	55/500	2500	0.25	500
CHCL 2012-33N _	33/250	G,J,K	60/500	2050	0.27	500
CHCL 2012-36N _	36/250	G,J,K	55/500	1700	0.27	500
CHCL 2012-39N _	39/250	G,J,K	60/500	2000	0.29	500
CHCL 2012-43N _	43/200	G,J,K	60/500	1,650	0.34	500
CHCL 2012-47N _	47/200	G,J,K	60/500	1,650	0.31	500
CHCL 2012-56N _	56/200	G,J,K	60/500	1,550	0.34	500
CHCL 2012-68N _	68/200	G,J,K	60/500	1,450	0.38	500
CHCL 2012-82N _	82/150	G,J,K	65/500	1,300	0.42	400
CHCL 2012-91N _	91/150	G,J,K	65/500	1,200	0.48	400
CHCL 2012-R10 _	100/150	G,J,K	50/250	1,200	0.46	400
CHCL 2012-R11 _	110/150	G,J,K	50/250	1000	0.48	400
CHCL 2012-R12 _	120/150	G,J,K	50/250	1100	0.51	400
CHCL 2012-R15 _	150/100	G,J,K	50/250	920	0.56	400
CHCL 2012-R16 _	160/100	G,J,K	50/250	900	0.60	400
CHCL 2012-R18 _	180/100	G,J,K	50/250	870	0.64	400
CHCL 2012-R20 _	200/100	G,J,K	50/250	865	0.68	400
CHCL 2012-R22 _	220/100	G,J,K	50/250	850	0.70	400
CHCL 2012-R24 _	240/100	G,J,K	44/250	690	1.00	350
CHCL 2012-R25 _	250/100	G,J,K	48/250	680	1.00	350
CHCL 2012-R27 _	270/100	G,J,K	48/250	650	1.00	350
CHCL 2012-R33 _	330/100	G,J,K	48/250	600	1.40	310
CHCL 2012-R39 _	390/100	G,J,K	48/250	560	1.50	290
CHCL 2012-R47 _	470/50	G,J,K	30/100	375	1.76	250
CHCL 2012-R56 _	560/25	G,J,K	23/50	340	1.90	230
CHCL 2012-R62 _	620/25	G,J,K	23/50	220	2.20	210
CHCL 2012-R68 _	680/25	G,J,K	23/50	188	2.20	190
CHCL 2012-R82 _	820/25	G,J,K	23/50	215	2.35	180
CHCL 2012-1R0 _	1000/25	G,J,K	22/50	200	2.45	180

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Electrical Characteristics

CHCL 2520 Series						
Part Number	Inductance		Q Value / MHz Min.	SRF (MHz) Min.	DCR () Max.	Rated Current (mA) Max.
	nH / MHz	Tolerance				
CHCL 2520-10N_	10/50	G,J,K	50/500	4100	0.08	1,000
CHCL 2520-12N_	12/50	G,J,K	50/500	3300	0.09	1,000
CHCL 2520-15N_	15/50	G,J,K	45/500	2,500	0.10	1,000
CHCL 2520-18N_	18/50	G,J,K	50/350	2,500	0.11	1,000
CHCL 2520-22N_	22/50	G,J,K	55/350	2,400	0.12	1,000
CHCL 2520-27N_	27/50	G,J,K	55/350	1,600	0.13	1,000
CHCL 2520-33N_	33/50	G,J,K	60/350	1,600	0.14	1,000
CHCL 2520-39N_	39/50	G,J,K	60/350	1,500	0.15	1,000
CHCL 2520-47N_	47/50	G,J,K	65/350	1,500	0.16	1,000
CHCL 2520-56N_	56/50	G,J,K	65/350	1,300	0.18	1,000
CHCL 2520-68N_	68/50	G,J,K	65/350	1,300	0.20	1,000
CHCL 2520-82N_	82/50	G,J,K	60/350	1,000	0.22	1,000
CHCL 2520-R10_	100/25	G,J,K	60/350	1,000	0.56	650
CHCL 2520-R12_	120/25	G,J,K	60/350	950	0.63	650
CHCL 2520-R15_	150/25	G,J,K	45/100	850	0.70	580
CHCL 2520-R18_	180/25	G,J,K	45/100	750	0.77	620
CHCL 2520-R22_	220/25	G,J,K	45/100	700	0.84	500
CHCL 2520-R27_	270/25	G,J,K	45/100	600	0.91	500
CHCL 2520-R33_	330/25	G,J,K	45/100	570	1.05	450
CHCL 2520-R39_	390/25	G,J,K	45/100	500	1.12	470
CHCL 2520-R47_	470/25	G,J,K	45/100	450	1.19	470
CHCL 2520-R56_	560/25	G,J,K	45/100	415	1.33	400
CHCL 2520-R62_	620/25	G,J,K	45/100	375	1.40	300
CHCL 2520-R68_	680/25	G,J,K	45/100	375	1.47	400
CHCL 2520-R75_	750/25	G,J,K	45/100	360	1.54	360
CHCL 2520-R82_	820/25	G,J,K	45/100	350	1.65	400
CHCL 2520-R91_	910/25	G,J,K	35/50	320	1.68	380
CHCL 2520-1R0_	1000/25	G,J,K	35/50	290	1.75	370
CHCL 2520-1R2_	1200/7.9	G,J,K	35/50	250	2.00	310
CHCL 2520-1R5_	1500/7.9	G,J,K	28/50	200	2.30	330
CHCL 2520-1R8_	1800/7.9	G,J,K	28/50	160	2.60	300
CHCL 2520-2R2_	2200/7.9	G,J,K	28/50	160	2.80	280
CHCL 2520-2R7_	2700/7.9	G,J,K	22/25	135	3.20	290
CHCL 2520-3R3_	3300/7.9	G,J,K	22/25	110	3.40	290
CHCL 2520-3R9_	3900/7.9	G,J,K	20/25	100	3.60	260
CHCL 2520-4R7_	4700/7.9	G,J,K	20/25	90	4.00	260
CHCL 2520-5R6_	5600/7.9	G,J,K	18/7.9	40	4.20	240
CHCL 2520-6R8_	6800/7.9	G,J,K	18/7.9	40	4.90	200
CHCL 2520-8R2_	8200/7.9	G,J,K	18/7.9	25	6.10	170
CHCL 2520-100_	10000/2.5	G,J,K	18/7.9	25	8.00	150

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