深圳市岑科實業有限公司
SHENZHEN CENKER ENTERPRISE LTD.

Wire Wound Chip Inductors - CKCW

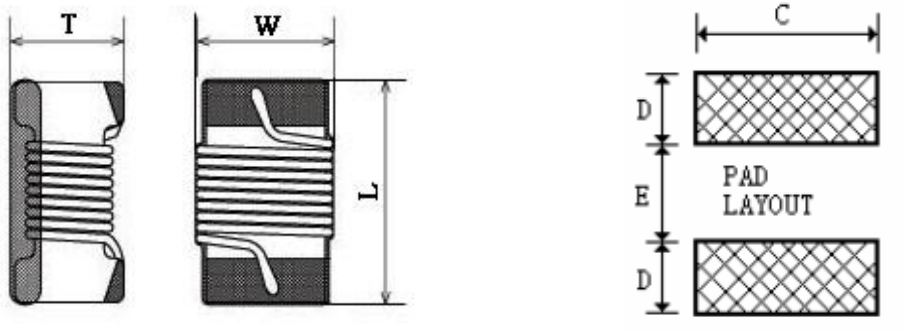
■ Features

1. High Q value and high self-resonant frequency with ceramic material.
2. Low DCR & better Q value in ferrite series.
3. Small chip suitable for surface mounting.

■ Applications

Ceramic material: RF products for cellular phone, GPS receiver, WLAN, mouse, keyboard, etc.
Ferrite material: Telecom and datacom applications such as Xdsl, cable modem, CATV fillter, etc.

■ Dimensions and Construction



Dimensions in mm

TYPE	L(Max)	W(Max)	T(Max)	C	D	E
0402	1.19	0.70	0.66	0.66	0.36	0.46
0603	1.80	1.25	1.02	1.02	0.64	0.64
0805	2.40	1.72	1.52	1.78	1.02	0.76
1008	2.99	2.79	2.20	2.54	1.02	1.27

■ Part Numbering System

CKCW 0402 - 33nH / J (C)

- (C): MATERIAL (C):Ceramic; No marking:Ferrite
- J: TOLERANCE
- 33nH: INDUCTANCE
- 0402: SIZE CODE
- CKCW: SERIES NAME

■ Electrical Characteristics

(1) Operating Temperature Ranges: -25～85℃.
(2) Rated Current(ceramic material): DC current that causes the temperature rise (△T ≤40℃) from 25℃ ambient.
Rated Current(ferrite material): DC current at which the inductance drops approximate 10% from its value without current.

■ Electrical Parameters

■CKCW0402(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (GHz) Min	Rated Current (mA)Max	Remark
CKCW0402-1.0nH/K(C)	1.0±10%	250	16	0.045	12.70	1360	
CKCW0402-1.2nH/K(C)	1.2±10%	250	10	0.140	10.40	640	
CKCW0402-1.3nH/K(C)	1.3±10%	250	10	0.140	10.40	640	
CKCW0402-1.9nH/K(C)	1.9±10%	250	16	0.070	11.30	1040	
CKCW0402-2.0nH/K(C)	2.0±10%	250	16	0.070	11.10	1040	
CKCW0402-2.2nH/K(C)	2.2±10%	250	19	0.070	10.80	960	
CKCW0402-2.4nH/K(C)	2.4±10%	250	15	0.068	10.50	790	
CKCW0402-2.5nH/K(C)	2.5±10%	250	13	0.150	10.40	640	
CKCW0402-2.7nH/K(C)	2.7±10%	250	16	0.120	10.40	640	
CKCW0402-3.3nH/J(C)	3.3±5%	250	19	0.066	7.00	840	
CKCW0402-3.6nH/J(C)	3.6±5%	250	19	0.066	6.80	840	
CKCW0402-3.9nH/J(C)	3.9±5%	250	19	0.066	6.00	840	
CKCW0402-4.3nH/J(C)	4.3±5%	250	18	0.091	6.00	700	
CKCW0402-4.7nH/J(C)	4.7±5%	250	15	0.130	4.77	640	
CKCW0402-5.1nH/J(C)	5.1±5%	250	20	0.083	4.80	800	
CKCW0402-5.6nH/J(C)	5.6±5%	250	20	0.083	4.80	760	
CKCW0402-5.8nH/J(C)	5.8±5%	250	20	0.083	4.80	760	
CKCW0402-6.2nH/J(C)	6.2±5%	250	20	0.083	4.80	760	
CKCW0402-6.8nH/J(C)	6.8±5%	250	20	0.12	4.80	680	
CKCW0402-7.3nH/J(C)	7.3±5%	250	20	0.10	4.80	680	
CKCW0402-7.5nH/J(C)	7.5±5%	250	22	0.10	4.80	680	
CKCW0402-8.2nH/J(C)	8.2±5%	250	22	0.20	4.40	680	
CKCW0402-8.7nH/J(C)	8.7±5%	250	18	0.10	4.10	480	
CKCW0402-9.0nH/J(C)	9.0±5%	250	22	0.10	4.16	680	
CKCW0402-9.1nH/J(C)	9.1±5%	250	22	0.20	4.16	680	
CKCW0402-9.5nH/J(C)	9.5±5%	250	18	0.20	4.00	480	
CKCW0402-10nH/J(C)	10±5%	250	21	0.12	3.90	480	
CKCW0402-11nH/J(C)	11±5%	250	24	0.12	3.68	640	
CKCW0402-12nH/J(C)	12±5%	250	24	0.21	3.60	640	
CKCW0402-13nH/J(C)	13±5%	250	24	0.17	3.45	440	
CKCW0402-15nH/J(C)	15±5%	250	24	0.22	3.28	560	
CKCW0402-16nH/J(C)	16±5%	250	24	0.23	3.10	560	
CKCW0402-18nH/J(C)	18±5%	250	25	0.20	3.10	420	
CKCW0402-19nH/J(C)	19±5%	250	24	0.25	3.04	480	
CKCW0402-20nH/J(C)	20±5%	250	25	0.30	3.00	420	
CKCW0402-22nH/J(C)	22±5%	250	25	0.30	2.80	400	
CKCW0402-23nH/J(C)	23±5%	250	22	0.30	2.72	400	
CKCW0402-24nH/J(C)	24±5%	250	25	0.30	2.70	400	
CKCW0402-27nH/J(C)	27±5%	250	24	0.30	2.48	400	
CKCW0402-30nH/J(C)	30±5%	250	25	0.35	2.35	400	
CKCW0402-33nH/J(C)	33±5%	250	24	0.40	2.35	400	

■CKCW0402(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (GHz) Min	Rated Current (mA)Max	Remark
CKCW0402-36nH/J(C)	36±5%	250	24	0.44	2.32	320	
CKCW0402-39nH/J(C)	39±5%	250	25	0.55	2.10	200	
CKCW0402-40nH/J(C)	40±5%	250	24	0.65	2.24	320	
CKCW0402-43nH/J(C)	43±5%	250	25	0.81	2.03	100	
CKCW0402-47nH/J(C)	47±5%	250	20	0.83	2.10	150	
CKCW0402-51nH/J(C)	51±5%	250	25	0.82	1.75	100	
CKCW0402-56nH/J(C)	56±5%	250	22	0.97	1.76	100	
CKCW0402-68nH/J(C)	68±5%	250	22	1.12	1.62	100	
CKCW0402-82nH/J(C)	82±5%	250	20	1.55	1.26	50	
CKCW0402-100nH/J(C)	100±5%	250	20	2.00	1.16	30	
CKCW0402-180nH/J(C)	180±5%	250	8	2.70	0.70	50	
CKCW0402-220nH/J(C)	220±5%	250	8	4.00	0.70	50	

■CKCW0402 Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0402-20nH/K	20±10%	100	10	0.050	2600	1600	
CKCW0402-22nH/K	22±10%	100	10	0.072	2500	1300	
CKCW0402-33nH/K	33±10%	100	10	0.060	2300	1400	
CKCW0402-36nH/K	36±10%	100	10	0.092	2300	1000	
CKCW0402-39nH/K	39±10%	100	10	0.150	2200	830	
CKCW0402-51nH/K	51±10%	100	10	0.070	1930	1100	
CKCW0402-56nH/K	56±10%	100	10	0.125	1900	900	
CKCW0402-72nH/K	72±10%	100	10	0.100	1650	900	
CKCW0402-78nH/K	78±10%	100	10	0.190	1600	850	
CKCW0402-100nH/K	100±10%	100	9	0.160	1400	900	
CKCW0402-140nH/K	140±10%	50	11	0.260	1220	540	
CKCW0402-180nH/K	180±10%	50	11	0.330	1150	560	
CKCW0402-200nH/K	200±10%	50	11	0.440	1000	400	
CKCW0402-220nH/K	220±10%	50	11	0.530	1150	380	
CKCW0402-250nH/K	250±10%	25	11	0.360	900	520	
CKCW0402-270nH/K	270±10%	25	11	0.550	860	360	
CKCW0402-300nH/K	300±10%	25	11	0.410	860	420	
CKCW0402-330nH/K	330±10%	7.9	11	0.680	820	350	
CKCW0402-360nH/K	360±10%	7.9	11	0.575	810	360	
CKCW0402-390nH/K	390±10%	7.9	11	0.890	760	300	
CKCW0402-420nH/K	420±10%	7.9	11	1.100	700	340	
CKCW0402-470nH/K	470±10%	7.9	11	0.730	650	310	
CKCW0402-560nH/K	560±10%	7.9	11	1.100	600	200	

■CKCW0603(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0603-1.6nH/K(C)	1.6±10%	250	24	0.030	12500	700	
CKCW0603-1.8nH/K(C)	1.8±10%	250	16	0.045	12500	700	
CKCW0603-2.2nH/K(C)	2.2±10%	250	13	0.250	12500	700	
CKCW0603-3.3nH/K(C)	3.3±10%	250	35	0.045	5900	700	
CKCW0603-3.6nH/K(C)	3.6±10%	250	22	0.063	5900	700	
CKCW0603-3.9nH/J(C)	3.9±5%	250	22	0.080	6900	700	
CKCW0603-4.3nH/J(C)	4.3±5%	250	22	0.063	5900	700	
CKCW0603-4.7nH/J(C)	4.7±5%	250	20	0.116	5800	700	
CKCW0603-5.1nH/J(C)	5.1±5%	250	20	0.140	5700	700	
CKCW0603-5.6nH/J(C)	5.6±5%	250	20	0.170	5800	700	
CKCW0603-6.3nH/J(C)	6.3±5%	250	20	0.140	5700	700	
CKCW0603-6.8nH/J(C)	6.8±5%	250	27	0.110	5800	700	
CKCW0603-7.5nH/J(C)	7.5±5%	250	28	0.106	4800	700	
CKCW0603-8.2nH/J(C)	8.2±5%	250	28	0.109	4700	700	
CKCW0603-8.7nH/J(C)	8.7±5%	250	28	0.109	4600	700	
CKCW0603-9.1nH/J(C)	9.1±5%	250	28	0.120	4800	700	
CKCW0603-9.5nH/J(C)	9.5±5%	250	28	0.135	5400	700	
CKCW0603-10nH/J(C)	10±5%	250	31	0.130	4800	700	
CKCW0603-11nH/J(C)	11±5%	250	33	0.086	4000	700	
CKCW0603-12nH/J(C)	12±5%	250	35	0.130	4000	700	
CKCW0603-13nH/J(C)	13±5%	250	30	0.160	4000	700	
CKCW0603-15nH/J(C)	15±5%	250	35	0.170	4000	700	
CKCW0603-16nH/J(C)	16±5%	250	34	0.104	3300	700	
CKCW0603-18nH/J(C)	18±5%	250	35	0.170	3100	700	
CKCW0603-20nH/J(C)	20±5%	250	38	0.190	3000	700	
CKCW0603-22nH/J(C)	22±5%	250	38	0.190	3000	700	
CKCW0603-23nH/J(C)	23±5%	250	38	0.190	2850	700	
CKCW0603-24nH/J(C)	24±5%	250	37	0.135	2650	700	
CKCW0603-27nH/J(C)	27±5%	250	40	0.220	2800	600	
CKCW0603-30nH/J(C)	30±5%	250	37	0.144	2250	600	
CKCW0603-33nH/J(C)	33±5%	250	40	0.22	2300	600	
CKCW0603-36nH/J(C)	36±5%	250	38	0.25	2080	600	
CKCW0603-39nH/J(C)	39±5%	250	40	0.25	2200	600	
CKCW0603-43nH/J(C)	43±5%	250	39	0.28	2000	600	
CKCW0603-47nH/J(C)	47±5%	200	38	0.28	2000	600	
CKCW0603-51nH/J(C)	51±5%	200	38	0.31	1900	600	
CKCW0603-56nH/J(C)	56±5%	200	38	0.31	1900	600	
CKCW0603-68nH/J(C)	68±5%	200	37	0.34	1700	600	
CKCW0603-72nH/J(C)	72±5%	150	34	0.49	1700	400	
CKCW0603-82nH/J(C)	82±5%	150	34	0.54	1700	400	
CKCW0603-91nH/J(C)	91±5%	150	34	0.58	1400	400	
CKCW0603-100nH/J(C)	100±5%	150	34	0.58	1400	400	
CKCW0603-110nH/J(C)	110±5%	150	32	0.61	1350	300	
CKCW0603-120nH/J(C)	120±5%	150	32	0.75	1300	300	
CKCW0603-150nH/J(C)	150±5%	150	28	0.92	990	280	
CKCW0603-160nH/J(C)	160±5%	100	25	1.25	990	240	
CKCW0603-180nH/J(C)	180±5%	100	25	1.25	990	240	
CKCW0603-200nH/J(C)	200±5%	100	25	2.1	900	200	
CKCW0603-210nH/J(C)	210±5%	100	27	2.06	895	200	

■CKCW0603(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0603-220nH/J(C)	220±5%	100	25	2.1	900	200	
CKCW0603-240nH/J(C)	240±5%	100	25	2.2	900	200	
CKCW0603-250nH/J(C)	250±5%	100	25	3.55	822	120	
CKCW0603-270nH/J(C)	270±5%	100	24	2.8	900	170	
CKCW0603-330nH/J(C)	330±5%	100	25	3.89	900	100	
CKCW0603-390nH/J(C)	390±5%	100	25	4.35	900	100	
CKCW0603-470nH/J(C)	470±5%	100	25	4.5	500	100	
CKCW0603-560nH/J(C)	560±5%	100	23	4.7	460	90	

■CKCW0603 Series

Part No.	Inductance (uH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0603-47nH/J	0.047±5%	7.9	17	0.075	1700	1500	
CKCW0603-72nH/J	0.072±5%	7.9	17	0.12	1700	1500	
CKCW0603-100nH/J	0.10±5%	7.9	17	0.13	1650	1500	
CKCW0603-120nH/J	0.12±5%	7.9	17	0.15	1350	1500	
CKCW0603-150nH/J	0.15±5%	7.9	17	0.15	1350	1450	
CKCW0603-180nH/J	0.18±5%	7.9	17	0.15	1150	1400	
CKCW0603-220nH/J	0.22±5%	7.9	17	0.16	1050	1350	
CKCW0603-240nH/J	0.24±5%	7.9	17	0.19	1050	1300	
CKCW0603-270nH/J	0.27±5%	7.9	17	0.3	1050	1050	
CKCW0603-330nH/J	0.33±5%	7.9	17	0.46	850	1200	
CKCW0603-390nH/J	0.39±5%	7.9	17	0.51	810	1200	
CKCW0603-470nH/J	0.47±5%	7.9	17	0.62	720	1050	
CKCW0603-560nH/J	0.56±5%	7.9	17	0.44	600	850	
CKCW0603-680nH/J	0.68±5%	7.9	17	0.52	600	850	
CKCW0603-780nH/J	0.78±5%	7.9	17	0.83	460	850	
CKCW0603-820nH/J	0.82±5%	7.9	17	0.69	480	750	
CKCW0603-910nH/J	0.91±5%	7.9	17	0.76	330	670	
CKCW0603-1.0uH/J	1.0±5%	7.9	18	0.81	310	600	
CKCW0603-1.2uH/J	1.2±5%	7.9	17	0.87	270	550	
CKCW0603-1.5uH/J	1.5±5%	7.9	17	1.06	270	540	
CKCW0603-1.8uH/J	1.8±5%	7.9	17	1.1	230	520	
CKCW0603-2.2uH/J	2.2±5%	7.9	17	1.2	140	500	
CKCW0603-2.7uH/J	2.7±5%	7.9	17	1.5	105	480	
CKCW0603-3.3uH/J	3.3±5%	7.9	17	1.5	84	440	
CKCW0603-3.9uH/J	3.9±5%	7.9	17	1.6	80	430	
CKCW0603-4.7uH/J	4.7±5%	7.9	18	2.1	69	420	
CKCW0603-5.6uH/J	5.6±5%	7.9	18	2.6	65	400	
CKCW0603-6.8uH/J	6.8±5%	7.9	19	3.1	55	400	
CKCW0603-7.8uH/J	7.8±5%	7.9	17	3.5	47	400	
CKCW0603-8.2uH/J	8.2±5%	7.9	17	3.8	42	400	
CKCW0603-10uH/J	10±5%	7.9	19	4.8	40	300	

■CKCW0805(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0805-2.7nH/J(C)	2.7±10%	250	50	0.06	7900	800	
CKCW0805-2.8nH/J(C)	2.8±10%	250	80	0.06	7900	800	
CKCW0805-3.0nH/J(C)	3.0±10%	250	65	0.06	7900	800	
CKCW0805-3.3nH/J(C)	3.3±10%	250	50	0.08	7900	600	
CKCW0805-5.6nH/J(C)	5.6±10%	250	65	0.08	5500	600	
CKCW0805-6.8nH/J(C)	6.8±5%	250	50	0.11	5500	600	
CKCW0805-7.5nH/J(C)	7.5±5%	250	50	0.14	4500	600	
CKCW0805-8.2nH/J(C)	8.2±5%	250	50	0.12	4700	600	
CKCW0805-10nH/J(C)	10±5%	250	60	0.10	4200	600	
CKCW0805-12nH/J(C)	12±5%	250	50	0.15	4000	600	
CKCW0805-15nH/J(C)	15±5%	250	50	0.17	3400	600	
CKCW0805-18nH/J(C)	18±5%	250	50	0.20	3300	600	
CKCW0805-22nH/J(C)	22±5%	250	55	0.22	2600	500	
CKCW0805-24nH/J(C)	24±5%	250	50	0.22	2000	500	
CKCW0805-27nH/J(C)	27±5%	250	55	0.25	2500	500	
CKCW0805-33nH/J(C)	33±5%	250	60	0.27	2050	500	
CKCW0805-36nH/J(C)	36±5%	250	55	0.27	1700	500	
CKCW0805-39nH/J(C)	39±5%	250	60	0.29	2000	500	
CKCW0805-43nH/J(C)	43±5%	200	60	0.34	1650	500	
CKCW0805-47nH/J(C)	47±5%	200	60	0.31	1650	500	
CKCW0805-56nH/J(C)	56±5%	200	60	0.34	1550	500	
CKCW0805-68nH/J(C)	68±5%	200	60	0.38	1450	500	
CKCW0805-82nH/J(C)	82±5%	150	65	0.42	1300	400	
CKCW0805-91nH/J(C)	91±5%	150	65	0.48	1200	400	
CKCW0805-100nH/J(C)	100±5%	150	65	0.46	1200	400	
CKCW0805-110nH/J(C)	110±5%	150	50	0.48	1000	400	
CKCW0805-120nH/J(C)	120±5%	150	50	0.51	1100	400	
CKCW0805-150nH/J(C)	150±5%	100	50	0.56	920	400	
CKCW0805-180nH/J(C)	180±5%	100	50	0.64	870	400	
CKCW0805-200nH/J(C)	200±5%	100	50	0.68	860	400	
CKCW0805-220nH/J(C)	220±5%	100	50	0.70	850	400	
CKCW0805-240nH/J(C)	240±5%	100	44	1.00	690	350	
CKCW0805-250nH/J(C)	250±5%	100	45	1.20	660	350	
CKCW0805-270nH/J(C)	270±5%	100	48	1.00	650	350	
CKCW0805-330nH/J(C)	330±5%	100	48	1.40	600	310	
CKCW0805-390nH/J(C)	390±5%	100	48	1.50	450	290	
CKCW0805-470nH/J(C)	470±5%	50	33	1.76	375	250	
CKCW0805-510nH/J(C)	510±5%	25	23	1.90	340	230	
CKCW0805-560nH/J(C)	560±5%	25	23	1.90	340	230	
CKCW0805-620nH/J(C)	620±5%	25	23	2.20	220	210	
CKCW0805-680nH/J(C)	680±5%	25	23	2.20	188	190	

■CKCW0805(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0805-820nH/J(C)	820±5%	25	23	2.35	215	180	
CKCW0805-1.0uH/J(C)	1000±5%	25	20	2.5	100	170	
CKCW0805-1.2uH/J(C)	1200±5%	7.9	18	2.5	100	170	
CKCW0805-1.8uH/J(C)	1800±5%	7.9	16	2.5	80	170	
CKCW0805-3.3uH/J(C)	3300±5%	7.9	15	4.4	40	90	
CKCW0805-4.7uH/J(C)	4700±5%	7.9	15	6.4	40	90	

■CKCW0805 Series

Part No.	Inductance (uH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW0805-78nH/J	0.078±5%	7.9	19	0.06	1440	2000	
CKCW0805-90nH/J	0.09±5%	7.9	19	0.07	1200	2000	
CKCW0805-110nH/J	0.11±5%	7.9	19	0.07	1200	2000	
CKCW0805-470nH/J	0.47±5%	7.9	19	0.40	480	800	
CKCW0805-560nH/J	0.56±5%	7.9	35	0.40	480	800	
CKCW0805-680nH/J	0.68±5%	7.9	20	0.40	480	800	
CKCW0805-910nH/J	0.91±5%	7.9	20	0.69	400	700	
CKCW0805-1.0uH/J	1±5%	7.9	20	0.69	400	700	
CKCW0805-1.2uH/J	1.2±5%	7.9	20	0.83	330	700	
CKCW0805-1.5uH/J	1.5±5%	7.9	20	0.83	330	700	
CKCW0805-1.8uH/J	1.8±5%	7.9	20	1.00	300	650	
CKCW0805-2.2uH/J	2.2±5%	7.9	20	1.10	250	650	
CKCW0805-2.7uH/J	2.7±5%	7.9	23	1.25	200	650	
CKCW0805-3.3uH/J	3.3±5%	7.9	23	1.45	160	650	
CKCW0805-3.9uH/J	3.9±5%	7.9	23	1.50	90	600	
CKCW0805-4.7uH/J	4.7±5%	7.9	20	1.60	70	530	
CKCW0805-5.6uH/J	5.6±5%	7.9	20	1.70	65	500	
CKCW0805-6.8uH/J	6.8±5%	7.9	20	1.95	45	470	
CKCW0805-8.2uH/J	8.2±5%	2.5	16	2.10	45	450	
CKCW0805-10uH/J	10±5%	2.5	16	2.40	40	400	
CKCW0805-12uH/J	12±5%	2.5	16	3.20	38	360	
CKCW0805-15uH/J	15±5%	2.5	16	3.55	30	350	
CKCW0805-18uH/J	18±5%	2.5	16	4.90	25	300	
CKCW0805-22uH/J	22±5%	2.5	16	5.45	20	270	
CKCW0805-27uH/J	27±5%	2.5	16	7.80	19	240	
CKCW0805-33uH/J	33±5%	2.5	16	9.50	16	210	
CKCW0805-47uH/J	47±5%	2.5	16	14.50	15	180	

■CKCW1008(C) Series

Part No.	Inductance (nH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW1008-10nH/J(C)	10±5%	500	50	0.08	4100	1000	
CKCW1008-12nH/J(C)	12±5%	500	50	0.09	3300	1000	
CKCW1008-15nH/J(C)	15±5%	500	50	0.10	2500	1000	
CKCW1008-18nH/J(C)	18±5%	350	50	0.11	2500	1000	
CKCW1008-22nH/J(C)	22±5%	350	55	0.12	2400	1000	
CKCW1008-27nH/J(C)	27±5%	350	55	0.13	1600	1000	
CKCW1008-33nH/J(C)	33±5%	350	60	0.14	1600	1000	
CKCW1008-39nH/J(C)	39±5%	350	60	0.15	1500	1000	
CKCW1008-47nH/J(C)	47±5%	350	65	0.16	1500	1000	
CKCW1008-56nH/J(C)	56±5%	350	65	0.18	1300	1000	
CKCW1008-68nH/J(C)	68±5%	350	65	0.20	1300	1000	
CKCW1008-82nH/J(C)	82±5%	350	60	0.22	1000	1000	
CKCW1008-100nH/J(C)	100±5%	350	60	0.56	1000	650	
CKCW1008-120nH/J(C)	120±5%	350	60	0.63	950	650	
CKCW1008-150nH/J(C)	150±5%	100	45	0.70	850	580	
CKCW1008-180nH/J(C)	180±5%	100	45	0.77	750	620	
CKCW1008-200nH/J(C)	200±5%	100	45	0.84	700	500	
CKCW1008-220nH/J(C)	220±5%	100	45	0.84	700	500	
CKCW1008-270nH/J(C)	270±5%	100	45	0.91	600	500	
CKCW1008-330nH/J(C)	330±5%	100	45	1.05	570	450	
CKCW1008-390nH/J(C)	390±5%	100	45	1.12	500	470	
CKCW1008-470nH/J(C)	470±5%	100	45	1.19	450	470	
CKCW1008-560nH/J(C)	560±5%	100	45	1.33	415	400	
CKCW1008-620nH/J(C)	620±5%	100	45	1.40	375	300	
CKCW1008-680nH/J(C)	680±5%	100	45	1.47	375	400	
CKCW1008-750nH/J(C)	720±5%	100	45	1.54	360	360	
CKCW1008-820nH/J(C)	820±5%	100	45	1.61	350	400	
CKCW1008-910nH/J(C)	910±5%	50	35	1.68	320	380	
CKCW1008-1.0uH/J(C)	1000±5%	50	35	1.75	290	370	
CKCW1008-1.2uH/J(C)	1200±5%	50	35	2.00	250	310	
CKCW1008-1.5uH/J(C)	1500±5%	50	28	2.30	200	330	
CKCW1008-1.8uH/J(C)	1800±5%	50	28	2.60	160	300	
CKCW1008-2.2uH/J(C)	2200±5%	50	28	2.80	160	280	
CKCW1008-2.7uH/J(C)	2700±5%	25	22	3.20	140	290	
CKCW1008-3.3uH/J(C)	3300±5%	25	22	3.40	110	290	
CKCW1008-3.9uH/J(C)	3900±5%	25	20	3.60	100	260	
CKCW1008-4.7uH/J(C)	4700±5%	25	20	4.00	90	260	
CKCW1008-5.6uH/J(C)	5600±5%	7.9	18	4.00	45	240	
CKCW1008-6.8uH/J(C)	6800±5%	7.9	18	4.90	40	200	
CKCW1008-8.2uH/J(C)	8200±5%	7.9	18	6	25	170	
CKCW1008-10uH/J(C)	10000±5%	7.9	18	8	25	150	
CKCW1008-15uH/J(C)	15000±5%	7.9	15	11	20	100	

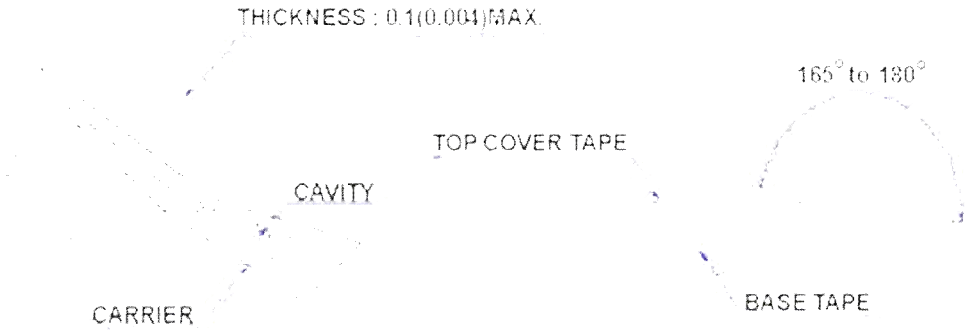
■CKCW1008 Series

Part No.	Inductance (uH)	Test Frequency (MHz)	Q Min	DCR (Ω)Max	SRF (MHz) Min	Rated Current (mA)Max	Remark
CKCW1008-1.2uH/J	1.2±5%	7.9	55	0.50	350	1200	
CKCW1008-1.5uH/J	1.5±5%	7.9	58	0.65	300	1200	
CKCW1008-1.8uH/J	1.8±5%	7.9	54	0.75	280	1050	
CKCW1008-2.2uH/J	2.2±5%	7.9	48	0.90	250	950	
CKCW1008-2.7uH/J	2.7±5%	7.9	51	1.00	200	950	
CKCW1008-3.3uH/J	3.3±5%	7.9	58	1.15	200	900	
CKCW1008-3.9uH/J	3.9±5%	7.9	37	1.25	170	850	
CKCW1008-4.7uH/J	4.7±5%	7.9	37	1.35	130	700	
CKCW1008-5.6uH/J	5.6±5%	7.9	36	1.45	110	700	
CKCW1008-6.8uH/J	6.8±5%	7.9	33	1.60	105	600	
CKCW1008-8.2uH/J	8.2±5%	7.9	40	1.80	90	550	
CKCW1008-10uH/J	10±5%	7.9	40	2.40	85	500	
CKCW1008-12uH/J	12±5%	7.9	40	2.40	80	450	
CKCW1008-15uH/J	15±5%	7.9	35	2.40	38	450	
CKCW1008-39uH/J	39±5%	2.5	33	10.00	26	170	

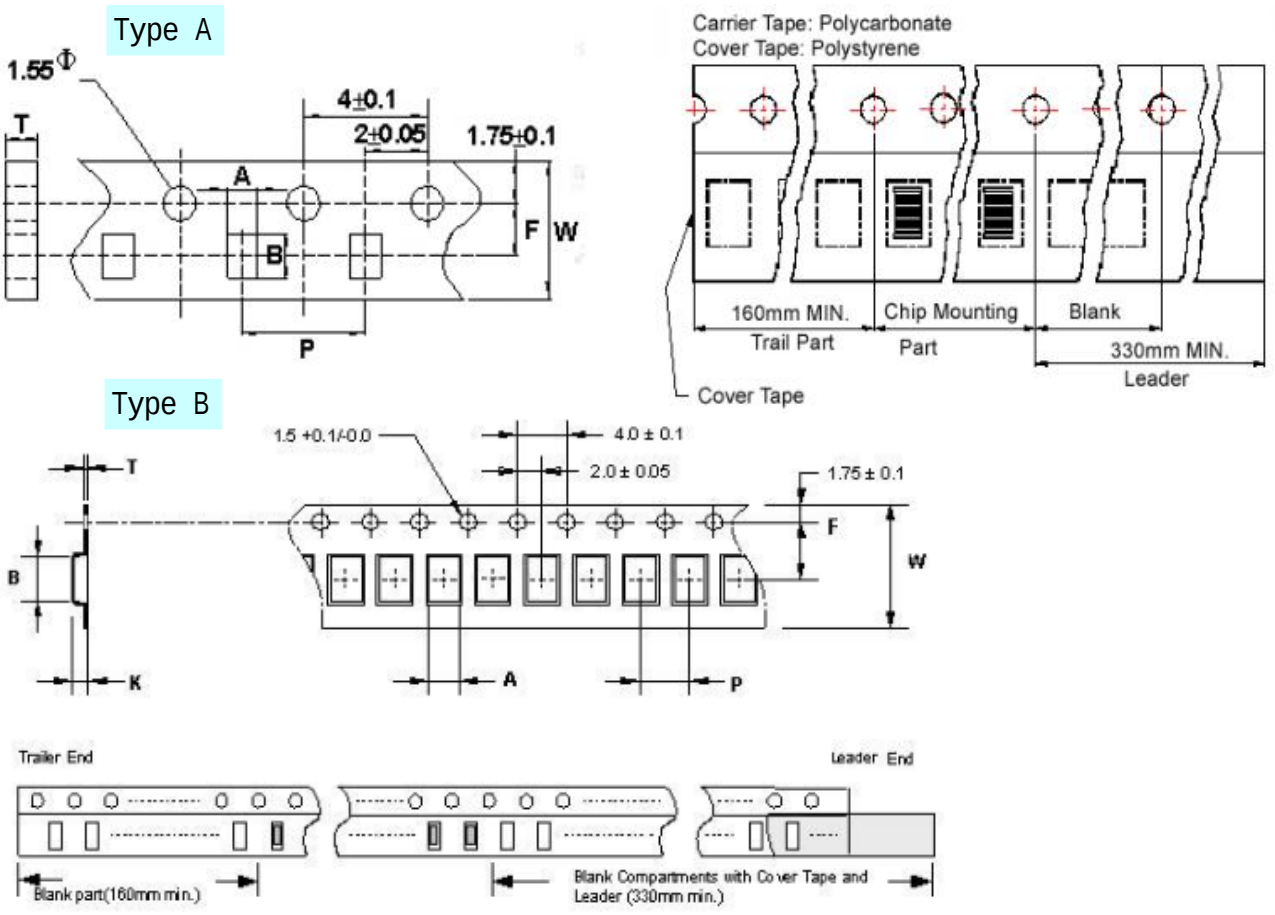
■ Packaging

1. Packaging -Cover Tape

The force for tearing off cover tape is 10 to 100 grams in the arrow direction.

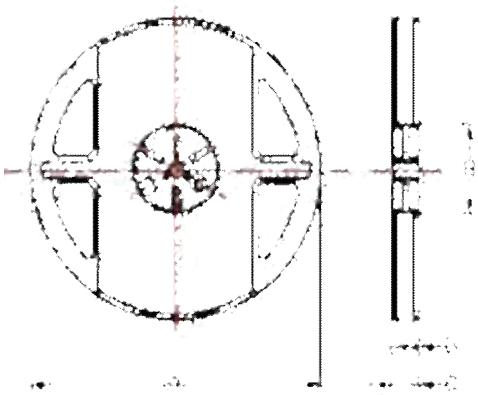


2. Tape Dimensions(Unit:mm)



Type	A	B	T	W	P	F	K	Tape Type
0402	0.67	1.20	0.75	8	2	3.5	0.575	B
0603	1.23	1.90	0.97	8	4	3.5	/	A
0805	1.60	2.42	0.22	8	4	3.5	1.45	B
1008	2.40	2.93	0.26	8	4	3.5	2.25	B

3. Reel Dimensions (Unit:mm)



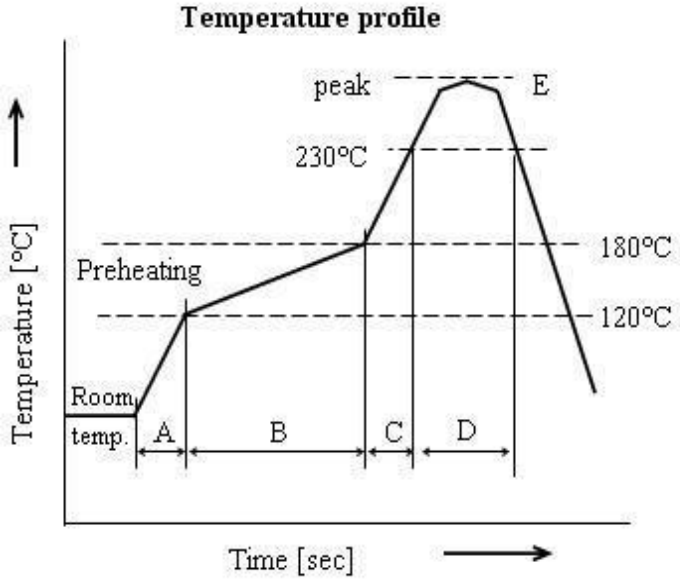
A	B	C	D
178	60	12	1.5

4. Packaging Quantity

Type	Pcs/Reel
0402	4,000
0603	4,000
0805	2,000
1008	2,000

■ Soldering

Reflow Soldering



A	Temp. rise gradient	1~5 ℃/sec
B	Heating time	50~150 sec
	Heating temperature	120~180 ℃
C	Temp. rise gradient	1~5 ℃/sec
D	Time over 230°C	70 sec
E	Peak temperature	260 ℃
	Peak-temp. hold time	Momentary
Soldering		2 times

■ **Reliability**

<table>
<tr><th>No.</th><th>Item</th><th>Specification</th><th>Test Method</th></tr>
<tr><td>1</td><td>Flexure Strength</td><td rowspan="2">The forces applied on the right conditions must not damage the terminal electrode and the ferrite.</td><td>Test device shall be soldered on the substrate
Substrate Dimension: 100x40x1.6mm
Deflection: 2.0mm
Keeping Time: 30sec
*For 100505, substrate dimension is 100x40x0.8mm</td></tr>
<tr><td>2</td><td>Vibration</td><td>Test device shall be soldered on the substrate
Oscillation Frequency: 10 to 55 to 10Hz for 1min
Amplitude: 1.5mm
Time: 2hrs for each axis (X, Y & Z), total 6hrs</td></tr>
<tr><td>3</td><td>Resistance to Soldering Heat Appearance: No damage</td><td>More than 75% of the termina Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free) electrode should be covered with solder.
Inductance: within ±15% of initial value</td><td>Pre-heating: 150℃, 1min
Solder Temperature: 260±5℃
Immersion Time: 10±1sec</td></tr>
<tr><td>4</td><td>Solder ability</td><td>The electrodes shall be at least 95% covered with new solder coating</td><td>Pre-heating: 150℃, 1min
Solder Composition: Sn/Ag3.0/Cu0.5(Pb-Free)
Solder Temperature: 245±5℃(Pb-Free)
Immersion Time: 4±1sec</td></tr>
<tr><td>5</td><td>Temperature Cycle</td><td rowspan="4">Appearance: No damage
Inductance:within±10% of initial value
Q change:within±30% of initial value</td><td>One cycle:
<table>
<tr><th>Step</th><th>Temperature (℃)</th><th>Time (min)</th></tr>
<tr><td>1</td><td>-25±3</td><td>30</td></tr>
<tr><td>2</td><td>25±2</td><td>3</td></tr>
<tr><td>3</td><td>85±3</td><td>30</td></tr>
<tr><td>4</td><td>25±2</td><td>3</td></tr>
</table>
Total: 100cycles
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>6</td><td>Humidity Resistance</td><td>Temperature: 40±2℃
Relative Humidity: 90 ~ 95% / Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>7</td><td>High Temperature Resistance</td><td>Temperature: 85±3℃
Relative Humidity: 20%
Applied Current: Rated Current / Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
<tr><td>8</td><td>Low Temperature Resistance</td><td>Temperature: -25±3℃
Relative Humidity: 0% / Time: 1000hrs
Measured after exposure in the room condition for 24hrs</td></tr>
</table>