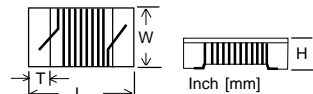


# CERAMIC CORE WIREWOUND CHIP INDUCTORS

## CI SERIES



RESISTORS • CAPACITORS • COILS • DELAY LINES



- Industry's widest range! 1nH to 10uH, 1%-10%, 0402-1008 sizes
- Non-magnetic ceramic-core design for HF operation
- Customized versions available with non-standard values, increased Q & SRF, marking of induct. value, etc.
- Ferrite core available for expanded inductance range & low DCR (Opt.F)

RCD Type	L± .01 [.25]	W±.01[.254]	H Max.	T±.006[.15]
CI0402	.044 [1.12]	.024 [6]	.028 [.7]	.012 [.3]
CI0603	.060 [1.5]	.035 [.89]	.040 [1]	.013 [.33]
CI0805	.080 [2.0]	.058 [1.47]	.060 [1.52]	.020 [.5]
CI1008	.105 [2.67]	.090 [2.29]	.090 [2.29]	.022 [.55]

INDUC. VALUE	CI0402					CI0603					CI0805					CI1008					
	Q (min)	Test Freq MHz	SRF, MHz	DCR, max.Ω	Rated DC Current(mA)	Q (min)	Test Freq MHz	SRF, MHz	DCR, max. Ω	Rated DC Current(mA)	Q (min)	Test Freq MHz	SRF, MHz	DCR, max.Ω	Rated DC Current(mA)	Q (min)	Test Freq MHz	SRF, MHz	DCR, max. Ω	Rated DC Current(mA)	
1nH	16	250	6000	.045	1360																
2nH	16	250	6000	.07	1040																
2.2nH	19	250	6000	.07	960						40	1500	>6G	.05	600						
3.3nH	19	250	6000	.066	840						30	1500	>6G	.08	600						
3.9nH	19	250	5800	.066	840	20	250	>6G	.08	700											
5.6nH	20	250	5800	.083	760																
6.8nH						25	250	5800	.11	700	50	1000	5000	.11	600						
7.5nH	22	250	5800	.104	680																
8.2nH	22	250	4400	.104	680																
10nH						30	250	4800	.13	700	50	1000	4800	.19	600	55	50	4100	.08	1000	
12nH	24	250	3600	.12	640	30	250	4000	.13	700	50	500	4100	.15	600	65	50	3400	.09	1000	
15nH	24	250	3280	.172	560	30	250	4000	.17	700	50	500	3900	.17	600	55	50	2600	.13	1000	
18nH						30	250	3200	.17	700	50	500	3300	.20	600	60	50	2600	.11	1000	
19nH	24	250	3040	.202	480																
22nH						35	250	3000	.19	700	55	500	2600	.22	500	60	50	2400	.12	1000	
23nH	24	250	2720	.214	400																
27nH	24	250	2480	.298	400	35	250	2800	.22	600	60	500	2500	.25	500	60	50	1700	.13	1000	
33nH						35	250	2300	.22	600	60	500	2200	.27	500	70	50	1700	.14	1000	
36nH	24	250	2320	.403	320																
39nH						35	250	2200	.25	600	60	500	2100	.29	500	70	50	1600	.15	1000	
47nH						35	200	2100	.28	600	60	500	1750	.31	500	70	50	1600	.16	1000	
56nH						35	200	2000	.31	600	60	500	1650	.32	500	70	50	1400	.18	1000	
68nH						35	200	1850	.34	600	60	500	1500	.38	500	65	50	1200	.21	1000	
82nH						35	150	1700	.54	400	60	500	1400	.42	400	65	50	1000	.22	1000	
.1uH						35	150	1500	.71	400	60	500	1200	.46	400	60	25	1000	.56	650	
.12uH						35	150	1350	.79	300	50	250	1200	.51	400	60	25	1000	.63	650	
.15uH						28	150	1200	.92	280	50	250	1000	.56	400	50	25	850	.62	580	
.18uH						25	100	1100	1.25	240	50	250	950	.64	400	50	25	800	.70	620	
.22uH						25	100	1000	1.50	200	45	250	850	.70	400	50	25	700	.80	500	
.27uH						25	100	860	1.80	170	40	250	680	1.0	350	50	25	700	.91	500	
.33uH						25	100	600	2.00	150	40	250	660	1.4	310	50	25	600	1.05	450	
.39uH						25	100	460	2.10	120	35	250	560	1.5	290	50	25	500	1.12	470	
.47uH											33	100	430	1.7	250	50	25	500	1.19	470	
.56uH											23	50	350	1.9	230	50	25	450	1.33	400	
.68uH											23	50	300	2.0	190	50	25	375	1.47	400	
.75uH											23	50	280	2.1	180	45	25	360	1.54	360	
.82uH											23	50	250	2.3	180	45	25	350	1.61	400	
1uH											20	50	200	2.5	150	35	25	290	1.75	370	
1.2uH																35	7.9	250	2.0	310	
1.5uH																28	7.9	200	2.3	330	
1.8uH																28	7.9	160	2.6	300	
2.2uH																28	7.9	160	2.8	280	
2.7uH																22	7.9	140	3.2	290	
3.3uH																22	7.9	110	3.4	290	
3.9uH																20	7.9	100	3.6	260	
4.7uH																20	7.9	90	4.0	260	
5.6uH																20	7.9	80	5.7	240	
6.8uH																20	7.9	70	7.7	200	
8.2uH																20	7.9	60	10.7	150	
8.2uH*																37	7.9	65	2.6	220	
10uH*																38	7.9	60	2.9	210	

\* Option 'F' Ferrite Core Design

### SPECIFICATIONS

Temperature Range	-40°C to +125°C
T.C. of Inductance	+100ppm/°C typ.
Thermal Shock	MIL-STD-202, M. 107
Dielectric Strength	50V DC Min.

**DESIGN NOTE:** A method to achieve a higher self-resonant frequency is to use two inductors in series (each to be half of the required value).

### P/N DESIGNATION:

**CI1008**  - **101** - **K T W**

RCD Type \_\_\_\_\_

Option Codes: F= ferrite core (leave blank if std)

Induc. Code (uH): 2 signif. figures and multiplier  
 R01=10nH (.01uH), R10=100nH (.1uH), 1R0=1uH. Values below 10nH (.01uH) use 'N' to indicate nH 1N0=1nH, 4N7=4.7nH, etc.

Tolerance: F= 1%, G= 2%, J= 5%, K= 10%

Packaging: B = Bulk, T = Tape & Reel

Termination: W= Lead-free, Q= Tin/Lead (leave blank if either is acceptable)