

# MINIATURE SURFACE MOUNT CHIP INDUCTORS

## CI SERIES



RESISTORS • CAPS & COILS • DELAY LINES

### FEATURES

- Small package size!
- Compatible with reflow solder techniques  
(withstands 260°C for 10 seconds)
- Color code marking available
- Available on 8mm plastic tape & reel
- Mini 0603 & 0402 sizes in development

### SPECIAL MODIFICATIONS

- Non-standard inductance values
- Wraparound terminations
- Increased Q or SRF levels
- Termination material



RCD Type	Induc. (µH)*	Q (Min.)	Test Freq. (MHz)	SRF (MHz)	Max. DCR (ohm)	Rated Current (mA)
CI0805	.0056	25	500	6000	.04	900
	.0068	30	500	5500	.05	800
	.0082	35	500	5000	.06	700
	.01	40	500	4500	.06	700
	.012	40	500	4000	.06	700
	.015	40	500	3500	.07	670
	.018	45	500	3300	.07	670
	.022	45	500	2600	.09	600
	.027	50	500	2500	.09	600
	.033	45	500	2150	.12	350
	.039	50	500	2060	.12	550
	.047	45	500	1900	.13	500
	.056	45	500	1700	.14	480
	.068	45	500	1500	.19	410
	.082	40	500	1450	.21	390
	.1	40	500	1350	.26	350
	.12	40	250	1250	.44	270
	.15	35	250	1120	.45	270
	.18	35	250	1050	.47	260
	.22	35	100	950	.55	240
	.27	35	100	870	1	180
	.33	35	100	800	1	180
	.39	35	100	730	1.9	130
	.47	35	100	660	2.4	115
	.56	35	100	600	3.2	100
	.68	20	25.2	450	.5	250
	.82	20	25.2	400	.55	240
	1.0	20	7.96	350	.6	230

RCD Type	L±.01[.254]	W±.01[.254]	H Max.	T±.01[.254]
CI0805	.08 [2.0]	.060 [1.5]	.055 [1.4]	.010 [25]
CI1008	.106[2.7]	.080 [2.03]	.110[2.8]	.024[61]

RCD Type	Induc. (µH)*	Q (Min.)	Test Freq. (MHz)	SRF (MHz)	Max. DCR (ohm)	Rated Current (mA)
CI1008	.056	52	50	1000	.18	1410
	.068	50	50	900	.20	1330
	.082	50	50	820	.22	1270
	.1	27	25	820	.56	800
	.12	26	25	820	.63	750
	.15	25	25	820	.70	720
	.18	25	25	700	.77	680
	.22	28	25	600	.84	650
	.27	28	25	550	.91	630
	.33	30	25	500	1.05	590
	.39	30	25	460	1.12	570
	.47	30	25	430	1.19	550
	.56	30	25	410	1.33	520
	.62	30	25	370	1.40	510
	.68	30	25	340	1.47	500
	.75	33	25	330	1.54	490
	.82	33	25	320	1.61	480
	.91	33	25	300	1.68	470
	1.0	34	25	290	1.75	460
	1.2	20	7.9	200	2.0	430
	1.5	20	7.9	160	2.3	400
	1.8	20	7.9	150	2.6	370
	2.2	20	7.9	140	2.8	360
	2.7	20	7.9	110	3.2	340
	3.3	20	7.9	90	3.4	330
	3.9	20	7.9	70	3.6	320
	4.7	20	7.9	60	4.0	300
	5.6	38	7.9	80	1.8	245
	6.8	37	7.9	70	2.0	235
	8.2	37	7.9	65	2.6	220
10	38	7.9	60	2.9	210	

\* Inductance values as low as 2.7nH are available, consult factory.

### SPECIFICATIONS

Temperature Range	-55°C to +155°C
T.C. of Inductance	+100ppm/°C typ.
Thermal Shock	MIL-STD-202, M. 107
Dielectric Strength	50V DC Min.
Dist. Capacitance	0.27 pF Max.
Terminations	Pt-Pd-Ag
Solderability	95% coverage, Min.

### MEASURING EQUIPMENT

Inductance, Q	HP4342A
SRF	Megacycle Meter
Resistance	ESI 1700/1701

### P/N DESIGNATION:

**CI1008 - 101 - K T**

RCD Type

Induc. Code: 2 signif. figures and multiplier  
except values below .01 use R + 3 digits (R068=0.068µH, 1R0=1µH, 100=10µH, 101=100µH). Use "R" as decimal point below 0.1µH, e.g. R01, R068 etc.

Tolerance: M=20%, K=10%, J=5%

Packaging: B = Bulk, T = Tape & Reel

(RCD option if not specified by customer.)

Also indicate if parts require any special modifications.

### APPLICATION NOTE

One method to achieve a higher self-resonant frequency is to use two inductors in series (each inductor to be half of the required value).

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FA specifications subject to change without notice