

MINIATURE SURFACE MOUNT CHIP INDUCTORS

CI SERIES

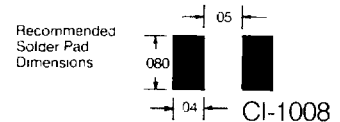
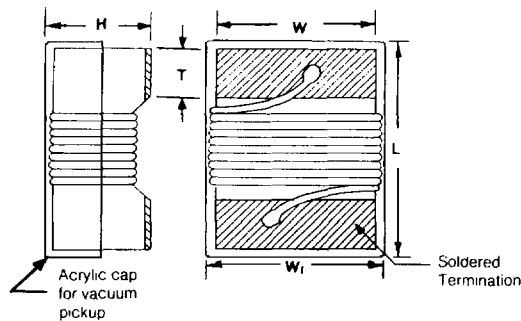
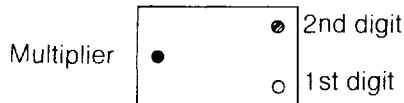
FEATURES

- Small package size!
- Flat-top design for vacuum pick-up
- Standard tolerance is $\pm 10\%$ (5% avail.)
- Compatible with reflow solder techniques (withstands 260°C for 10 seconds)
- Color code marking
- Available on 8mm plastic tape & reel, 2000 pieces per reel typ.
- Super-mini 0805-size in development

SPECIAL MODIFICATIONS

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

MARKING (Inductance in nanohenries)



RCD TYPE	L $\pm .01$ [.254]	W $\pm .01$ [.254]	W ₁ Max.	H. Max.	T $\pm .01$ [.254]
CI - 1008	.106 [2.7]	.080 [2.03]	.110 [2.8]	.110 [2.8]	.024 [.61]

SPECIFICATIONS

Temp. Range	-55°C to +155°C
T.C. of Inductance	+100 ppm/°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.

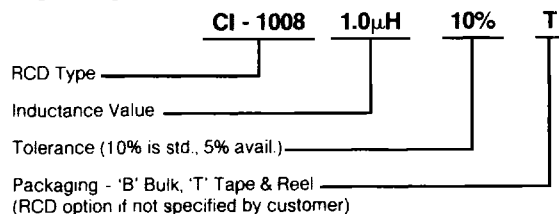
MEASURING EQUIPMENT

Inductance, Q	HP4342A
SRF	Megacycle Meter
Resistance	ESI 1700.1701

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).

HOW TO ORDER:



Also indicate if parts require any special modifications

RCD Type	Induc. (µH)*	Q (Min.)	Test Freq. (MHz)	SRF (MHz)	Max. DCR (ohm)	Rated Current (mA)
CI-1008	.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 10nH are available, consult factory.