

1. Part No. Expression:

SCI1008C10NG

(a) (b) (c) (d) (e)

a) Series Code

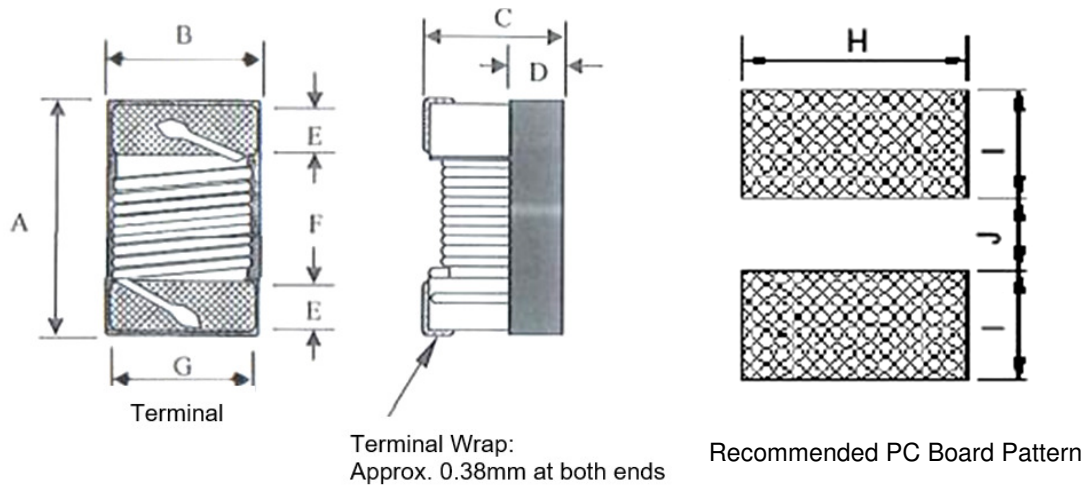
b) Dimension Code

c) Material Code

d) Inductance Code

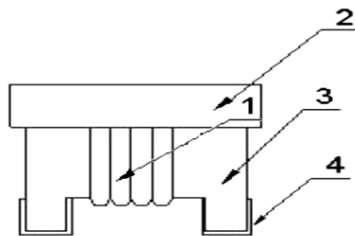
e) Tolerance Code

2. Configuration & Dimensions: (Unit:- mm)



A	B	C	D	E	F	G	H	I	J
2.92 Max	2.70 Max	2.23 Max	1.30 Ref	0.51 Ref	1.52 Ref	2.00 Ref	2.54 Ref	1.02 Ref	1.27 Ref

3. Material List:



- (1) Wire
- (2) Epoxy
- (3) Core
- (4) Terminal

NOTE: Specifications subject to change without notice. Please check our website for latest information.

4. General Specifications:

- (a) Operating Temp.: -40°C to +125°C (Including self - temperature rise).
- (b) Storage Temp.: -40°C to +125°C (on board).
- (c) Rated Current: 15°C rise above 25°C ambient.
- (d) Storage Condition (Component in its packaging)
 - i) Temperature: -10°C to +40°C.
 - ii) Humidity: 70% RH.

5. Electrical Characteristics:

Part No	Inductance (nH)	Test Frequency For L (Hz)	Tolerance	Q Min	Test Frequency For Q (Hz)	I _{rms} (mA) Max	DCR (Ω) Max	SRF (MHz) Min
SCI1008C10N□	10	0.2V/50M	G, J, K	50	0.2V/500M	1000	0.08	4100
SCI1008C12N□	12	0.2V/50M	G, J, K	50	0.2V/500M	1000	0.09	3300
SCI1008C15N□	15	0.2V/50M	G, J, K	50	0.2V/500M	1000	0.18	2500
SCI1008C18N□	18	0.2V/50M	G, J, K	50	0.2V/350M	1000	0.11	2500
SCI1008C22N□	22	0.2V/50M	G, J, K	55	0.2V/350M	1000	0.12	2400
SCI1008C27N□	27	0.2V/50M	G, J, K	55	0.2V/350M	1000	0.13	1600
SCI1008C33N□	33	0.2V/50M	G, J, K	60	0.2V/350M	1000	0.14	1600
SCI1008C39N□	39	0.2V/50M	G, J, K	60	0.2V/350M	1000	0.15	1500
SCI1008C47N□	47	0.2V/50M	G, J, K	65	0.2V/350M	1000	0.16	1500
SCI1008C56N□	56	0.2V/50M	G, J, K	65	0.2V/350M	1000	0.18	1300
SCI1008C68N□	68	0.2V/50M	G, J, K	65	0.2V/350M	1000	0.2	1300
SCI1008C82N□	82	0.2V/50M	G, J, K	60	0.2V/350M	1000	0.22	1000
SCI1008CR10□	100	0.2V/25M	G, J, K	60	0.2V/350M	650	0.56	1000
SCI1008CR12□	120	0.2V/25M	G, J, K	60	0.2V/350M	650	0.63	950
SCI1008CR15□	150	0.2V/25M	G, J, K	45	0.2V/100M	580	0.7	850
SCI1008CR18□	180	0.2V/25M	G, J, K	45	0.2V/100M	620	0.77	750
SCI1008CR22□	220	0.2V/25M	G, J, K	45	0.2V/100M	500	0.84	700
SCI1008CR27□	270	0.2V/25M	G, J, K	45	0.2V/100M	500	0.91	600
SCI1008CR33□	330	0.2V/25M	G, J, K	45	0.2V/100M	450	1.05	570

Tolerance: G= ±2%, J= ±5%, K= ±10%.

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Part No	Inductance (nH)	Test Frequency For L (Hz)	Tolerance	Q Min	Test Frequency For Q (Hz)	I _{rms} (mA) Max	DCR (Ω) Max	SRF (MHz) Min
SCI1008CR39□	390	0.2V/25M	G, J, K	45	0.2V/100M	470	1.12	500
SCI1008CR47□	470	0.2V/25M	G, J, K	45	0.2V/100M	470	1.19	450
SCI1008CR56□	560	0.2V/25M	G, J, K	45	0.2V/100M	400	1.33	415
SCI1008CR62□	620	0.2V/25M	G, J, K	45	0.2V/100M	300	1.4	375
SCI1008CR68□	680	0.2V/25M	G, J, K	45	0.2V/100M	400	1.47	375
SCI1008CR75□	750	0.2V/25M	G, J, K	45	0.2V/100M	360	1.54	360
SCI1008CR82□	820	0.2V/25M	G, J, K	45	0.2V/100M	400	1.61	350
SCI1008CR91□	910	0.2V/25M	G, J, K	35	0.2V/50M	380	1.68	320
SCI1008C1R0□	1000	0.2V/25M	G, J, K	35	0.2V/50M	370	1.75	290
SCI1008C1R2□	1200	0.2V/7.9M	G, J, K	35	0.2V/50M	310	2	250
SCI1008C1R5□	1500	0.2V/7.9M	G, J, K	28	0.2V/50M	330	2.23	200
SCI1008C1R8□	1800	0.2V/7.9M	G, J, K	28	0.2V/50M	300	2.6	160
SCI1008C2R2□	2200	0.2V/7.9M	G, J, K	28	0.2V/50M	280	2.8	160
SCI1008C2R7□	2700	0.2V/7.9M	G, J, K	22	0.2V/25M	290	3.2	140
SCI1008C3R3□	3300	0.2V/7.9M	G, J, K	22	0.2V/25M	290	3.4	110
SCI1008C3R9□	3900	0.2V/7.9M	G, J, K	20	0.2V/25M	260	3.6	100
SCI1008C4R7□	4700	0.2V/7.9M	G, J, K	18	0.2V/7.9M	200	4	32
SCI1008C5R6□	5600	0.2V/7.9M	G, J, K	16	0.2V/7.9M	240	5.7	20
SCI1008C6R8□	6800	0.2V/7.9M	G, J, K	18	0.2V/7.9M	200	7.7	40
SCI1008C8R2□	8200	0.2V/7.9M	G, J, K	18	0.2V/7.9M	170	10.7	25
SCI1008C100□	10000	0.2V/7.9M	G, J, K	18	0.2V/7.9M	100	12.7	25

Tolerance: G= ±2%, J= ±5%, K= ±10%.

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6. Soldering and Mounting:

Mildly activated rosin fluxes are preferred. Our terminations are suitable for all re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

6-1 Solder Re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

6-2 Soldering Iron (Figure 2):

Products attachment with soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Note:

- a) Preheat circuit and products to 150°C.
- b) 350°C tip temperature (Max.)
- c) Never contact the ceramic with the iron tip
- d) 1.0mm tip diameter (Max.)
- e) Use a 20 Watt soldering iron with tip diameter of 1.0mm.
- f) Limit soldering time to 4~5 sec.

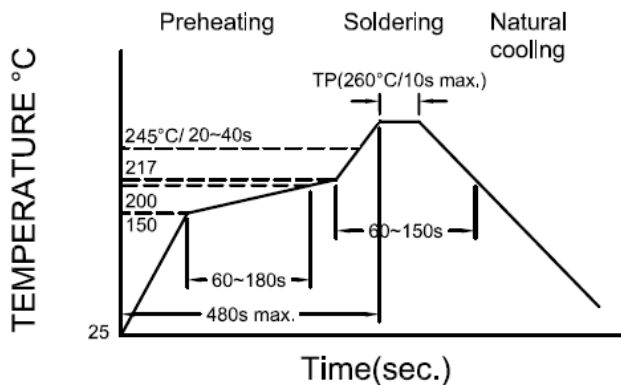


Figure 1: Re-flow Soldering Time 3 times Max.

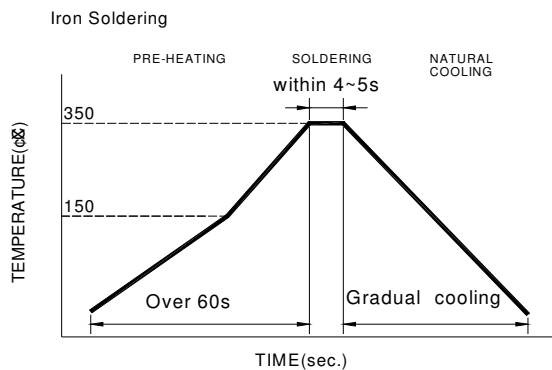


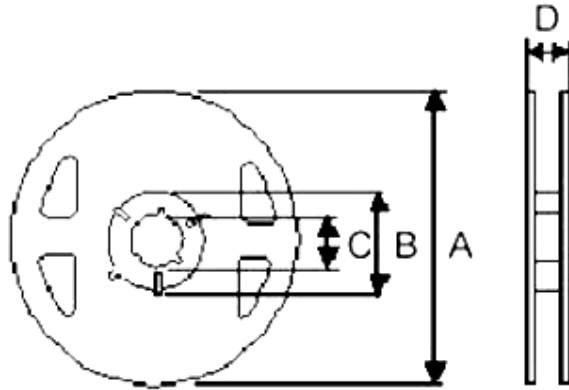
Figure 2: Iron Soldering Time 1 times Max.

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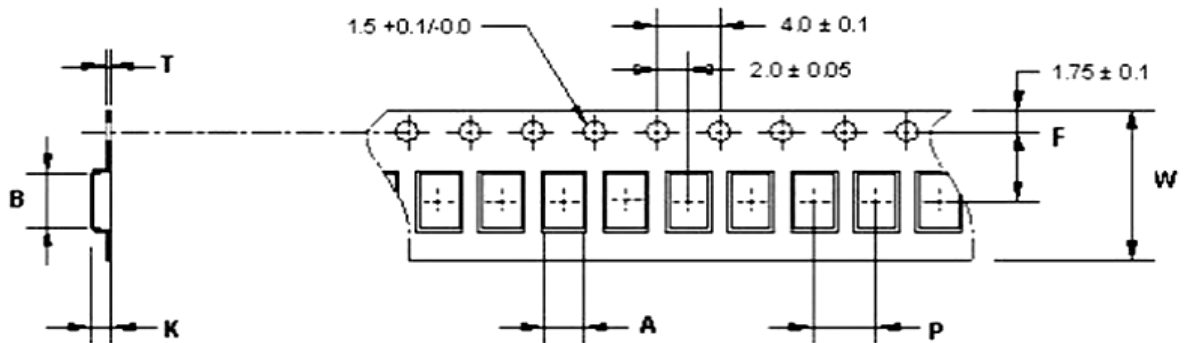
7. Packaging Information:

7-1 Reel Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	180 Ref	60.0 Ref	13.0 Ref	14.4 Ref

7-2 Tape Dimension



Size	A(mm)	B(mm)	T(mm)	W(mm)	P(mm)	F(mm)	K(mm)
SCI1008C	2.73 Ref	2.90 Ref	0.25 Ref	8.00 Ref	4.00 Ref	3.50 Ref	2.34 Ref

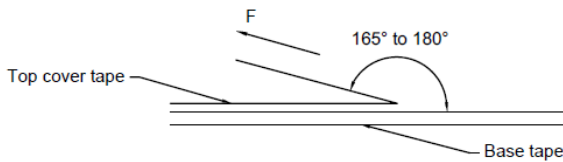
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7-3 Packaging Quantity

Chip Size	SCI1008C
Chip/Reel	2000
Inner Carton	10000
Outer Carton	100000

7-4 Tearing Off Force



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

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

Application Notice:

1. Storage Conditions:

To maintain the solderability of terminal electrodes:

- a) Recommended products should be used within 12 months from the time of delivery.
- b) The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Transportation:

- a) Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- b) Vacuum pick up is strongly recommended for individual components.
- c) Bulk handling should ensure that abrasion and mechanical shock are minimized.

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