

Features

1. SMD type chip inductors utilizing monolithic structure provide highly reliable surface mount applications.
2. Superior Q characteristics is guaranteed over the wide frequency range to allow high frequency applications.
3. Terminal electrode has excellent solder heat resistance.

Applications

1. RF module of telecommunication products.
-cellular phone, cordless phone, pager etc.
2. GSM phone, PCS phone.
3. Computer communications, Radar detectors.
4. Automotive electronics, Keyless remote.

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S C I - B 1608 - 120 K J T
 (1) (2) (3) (4) (5) (6) (7)

1) Series

2) Material & Design

3) Dimensions

The first two digits : length(mm)

The last two digits : width (mm)

4) Inductance

The first two digits are Significant.

The last digit is the number of zeros following.

N : a decimal point placed between first two digits

5) Tolerance

S : $\pm 0.3nH$

K : $\pm 10\%$

M : $\pm 20\%$

6) Termination

J : Nickel barrier

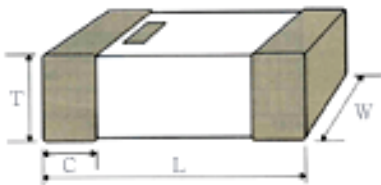
7) Packing

B : Bulk Pack

T : Tape & Reel(*Phi* 178mm (7 inches))

L : Tape & Reel(*Phi* 254mm (10 inches))

Shape and Dimensions



unit:mm[inches]

Type	L	W	T	C(max.)
S C I - []1005-	1.0 \pm 0.10 [.039 \pm .004]	0.5 \pm 0.10 [.020 \pm .004]	0.5 \pm 0.10 [.020 \pm .004]	0.4 [.016]
S C I - []1608-	1.6 \pm 0.15 [.079 \pm .008]	0.8 \pm 0.15 [.031 \pm .005]	0.8 \pm 0.15 [.031 \pm .006]	0.5 [.020]
S C I - []2012-	3.2 \pm 0.2 [.079 \pm .008]	1.25 \pm 0.20 [.049 \pm .008]	1.0 \pm 0.20 [.039 \pm .008]	0.6 [.024]

• **SCI1005**

Part NO.	Inductance		Q 100MHz min.	Q 800MHz min.	Q 1.8GHz min.	SRF(MHz)		DCR (m Ohm) max.	Rated Current (mA) max.
	nH	Tolerance				min.	typ.		
SCI-B1005-10N[][]	1.0	±0.3nH	8	20	26	6000	13000	100	300
SCI-B1005-12N[][]	1.2		8	20	26	6000	10000	120	300
SCI-B1005-15N[][]	1.5		8	20	30	6000	10000	120	300
SCI-B1005-18N[][]	1.8		8	22	35	6000	9500	140	300
SCI-B1005-22N[][]	2.2		8	22	35	6000	9000	160	300
SCI-B1005-27N[][]	2.7		8	22	35	6000	9000	200	300
SCI-B1005-33N[][]	3.3		8	22	35	6000	8000	220	300
SCI-B1005-39N[][]	3.9		8	22	30	4000	6500	250	300
SCI-B1005-47N[][]	4.7		8	22	30	4000	5000	280	300
SCI-B1005-56N[][]	5.6		8	22	28	4000	5000	300	300
SCI-B1005-68N[][]	6.8	± 5%	8	22	28	3900	4400	350	300
SCI-B1005-82N[][]	8.2		8	20	28	3600	4000	400	250
SCI-B1005-100[][]	10		8	20	24	3200	3500	450	250
SCI-B1005-120[][]	12		8	20	24	2700	3500	500	200
SCI-B1005-150[][]	15		8	20	20	2300	3000	550	200
SCI-B1005-180[][]	18		8	20	15	2100	2600	650	200
SCI-B1005-220[][]	22		8	20	13	1900	2200	800	200
SCI-B1005-270[][]	27		8	17	-	1600	1900	900	200
SCI-B1005-330[][]	33		8	16	-	1300	1700	1100	200
SCI-B1005-390[][]	39		8	16	-	1200	1600	1200	100
SCI-B1005-470[][]	47	8	10	-	1000	1300	1300	100	
SCI-B1005-560[][]	56	8	-	-	750	900	1400	100	
SCI-B1005-680[][]	68	8	-	-	700	800	1400	100	
SCI-B1005-820[][]	82	8	-	-	600	700	1600	100	
SCI-B1005-101[][]	100	8	-	-	550	650	1600	100	

• SRF : Self-Resonant Frequency

• DCR : DC Resistance

• **SCI1608**

Part NO.	Inductance		Q	L,Q test frequency (MHz)	SRF(MHz)		DCR (m Ohm) max.	Rated Current (mA) max.	
	nH	Tolerance	min.		min.	typ.			
SCI-B1608-10N[][]	1.0	±0.3nH	8	100	4000	13000	100	300	
SCI-B1608-12N[][]	1.2		8	100	4000	13000	100	300	
SCI-B1608-15N[][]	1.5		8	100	4000	10000	100	300	
SCI-B1608-18N[][]	1.8		8	100	3800	10000	120	300	
SCI-B1608-22N[][]	2.2		8	100	3600	10000	160	300	
SCI-B1608-27N[][]	2.7		8	100	3400	8000	200	300	
SCI-B1608-33N[][]	3.3	±0.3nH	10	100	3200	6000	220	300	
SCI-B1608-39N[][]	3.9		10	100	3000	6000	250	300	
SCI-B1608-47N[][]	4.7		10	100	2800	5000	280	300	
SCI-B1608-56N[][]	5.6	±10%	10	100	2700	5000	290	300	
SCI-B1608-68N[][]	6.8		10	100	2600	4000	300	300	
SCI-B1608-82N[][]	8.2	± 5%	10	100	2200	4000	330	300	
SCI-B1608-100[][]	10		10	100	1800	3000	350	300	
SCI-B1608-120[][]	12		10	100	1650	2500	400	300	
SCI-B1608-150[][]	15		10	100	1350	2000	450	300	
SCI-B1608-180[][]	18		10	100	1350	2000	500	300	
SCI-B1608-220[][]	22		10	100	1100	1800	550	300	
SCI-B1608-270[][]	27		10	100	1100	1600	600	300	
SCI-B1608-330[][]	33		10	100	1000	1400	650	300	
SCI-B1608-390[][]	39		10	100	900	1300	700	300	
SCI-B1608-470[][]	47		±10%	10	100	800	1300	900	300
SCI-B1608-560[][]	56			10	100	700	1100	1000	300
SCI-B1608-680[][]	68			10	100	650	1000	1200	300
SCI-B1608-820[][]	82			10	100	600	850	1500	300
SCI-B1608-101[][]	100			10	100	550	750	1700	300
SCI-B1608-121[][]	120	8		100	500	650	2000	250	
SCI-B1608-151[][]	150	8	100	500	600	2400	200		
SCI-B1608-181[][]	180	8	100	400	500	2700	200		
SCI-B1608-221[][]	220	8	100	400	500	2800	200		
SCI-B1608-271[][]	270	8	100	350	450	3100	200		

• SRF : Self-Resonant Frequency

• DCR : DC Resistance

• SCI1608

Part NO.	Inductance		Q min.	L,Q test frequency (MHz)	SRF(MHz)		DCR (m Ohm) max.	Rated Current (mA) max.
	nH	Tolerance			min.	typ.		
SCI-B2012-10N[][]	1.0	±0.3nH	10	100	4000	12000	100	300
SCI-B2012-12N[][]	1.2		10	100	4000	10000	100	300
SCI-B2012-15N[][]	1.5		10	100	4000	10000	100	300
SCI-B2012-18N[][]	1.8		10	100	4000	8000	100	300
SCI-B2012-22N[][]	2.2		10	100	3800	8000	100	300
SCI-B2012-27N[][]	2.7		10	100	3600	6000	100	300
SCI-B2012-33N[][]	3.3	±0.3nH ±10%	10	100	3400	6000	130	300
SCI-B2012-39N[][]	3.9		10	100	3200	5400	150	300
SCI-B2012-47N[][]	4.7		10	100	3000	4500	200	300
SCI-B2012-56N[][]	5.6		10	100	2800	4000	230	300
SCI-B2012-68N[][]	6.8		10	100	2600	3650	250	300
SCI-B2012-82N[][]	8.2		10	100	2200	3000	280	300
SCI-B2012-100[][]	10	±0.5% ±10%	10	100	1800	2500	300	300
SCI-B2012-120[][]	12		10	100	1650	2450	350	300
SCI-B2012-150[][]	15		10	100	1350	2000	400	300
SCI-B2012-180[][]	18		10	100	1350	1750	450	300
SCI-B2012-220[][]	22		15	100	1100	1500	500	300
SCI-B2012-270[][]	27		15	100	1100	1500	550	300
SCI-B2012-330[][]	33		15	100	900	1200	600	300
SCI-B2012-390[][]	39		15	100	900	1150	650	300
SCI-B2012-470[][]	47		15	100	850	1050	700	300
SCI-B2012-560[][]	56		15	00	750	1000	750	300
SCI-B2012-680[][]	68		15	100	700	950	800	300
SCI-B2012-820[][]	82		15	100	600	850	900	300
SCI-B2012-101[][]	100		15	100	500	730	1000	300
SCI-B2012-121[][]	120		15	100	450	630	1300	250
SCI-B2012-151[][]	150		15	100	400	570	1500	250
SCI-B2012-181[][]	180		15	100	350	510	1800	250
SCI-B2012-221[][]	220		10	100	330	450	2000	250
SCI-B2012-271[][]	270		10	100	300	410	2500	250
SCI-B2012-331[][]	330	10	100	270	370	3000	250	
SCI-B2012-391[][]	390	10	100	220	330	3500	250	
SCI-B2012-471[][]	470	10	100	180	280	4000	250	

• SRF : Self-Resonant Frequency
• DCR : DC Resistance

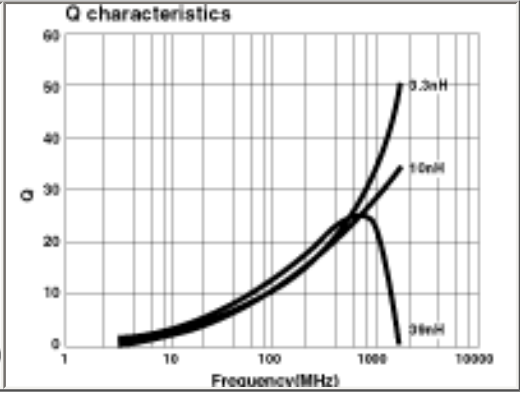
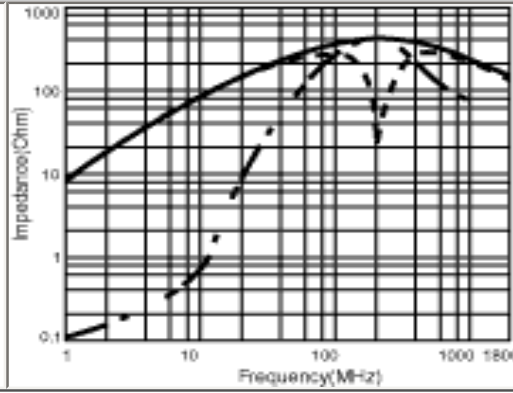


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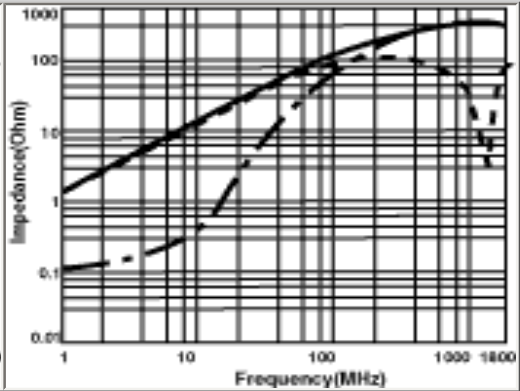
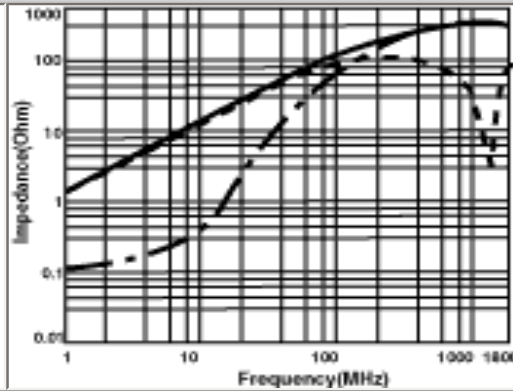
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SCI1680



SCI2012

