

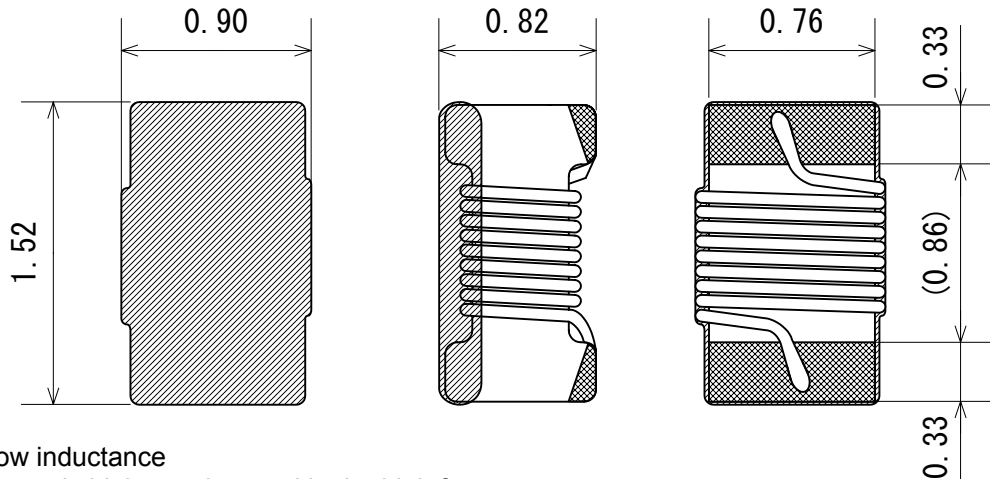
Chip Inductors for Surface Mounting

TYPE : C1608CB/H (Size:0603)



I
Fixed

Frequency Range:10~2000MHz
Inductance Range:1.5nH~390nH
Temperature Coefficient:+50±100ppm/°C



■Features

Small chip inductor for low inductance

As self resonance frequency is high, can be used in the high frequency range

Because winding is done directly onto the core, high Q is available

C1608H has realized higher, Q(+10%) and lower resistance(-20~30%) than C1608CB

■Specifications

Inductance		Q min.		SRF (MHz)min.		DC Resistance (Ω)max.		Allowable DC Current (mA)	
Code	(nH)	C1608CB	C1608H	C1608CB	C1608H	C1608CB	C1608H	C1608CB	C1608H
1N5	1.5	16		6000		0.045		700	
2N7	2.7		23		6000	0.045	0.045	1400	
3N6	3.6	22	26	5900	6000	0.063	0.045	700	1350
3N9	3.9	22	26	6000	6000	0.080	0.057	700	1300
4N3	4.3	22		5900		0.063		700	
5N6	5.6		31		6000	0.068	0.068	1250	
6N8	6.8	27	33	5800	6000	0.110	0.068	700	1200
7N5	7.5	28		4800		0.106		700	
8N2	8.2	28	33	4600	6000	0.110	0.088	700	1100
8N7	8.7	28		4600		0.109		700	
9N1	9.1		34		6000	0.088	0.088	1100	
10N	10	31	37	4800	6000	0.13	0.088	700	1100
11N	11	33		4000		0.13		700	
12N	12	35	38	4000	6000	0.13	0.11	700	950
15N	15	35	40	4000	4000	0.17	0.11	700	950
16N	16	34		3300		0.17		700	
18N	18	35	42	3100	4000	0.17	0.13	700	850
22N	22	38	42	3000	3700	0.19	0.14	700	800
24N	24	37		2650		0.19		700	
27N	27	40	42	2800	3500	0.22	0.16	600	750
30N	30	37		2250		0.22		600	
33N	33	40	41	2300	2700	0.22	0.18	600	700
36N	36	38		2080		0.25		600	
39N	39	40	40	2200	2400	0.25	0.21	600	700
43N	43	39		2000		0.28		600	
47N	47	38	39	2000	2400	0.28	0.23	600	700
51N	51	38		2000		0.38		400	
56N	56	38		1900		0.31		600	
62N	62	38		1700		0.38		400	
68N	68	37		1700		0.34		600	
72N	72	34		1700		0.49		400	
75N	75	34		1700		0.44		400	
82N	82	34		1700		0.54		400	
91N	91	34		1600		0.46		400	
R10	100	34		1400		0.58		400	
R11	110	32		1350		0.61		300	
R12	120	32		1300		0.72		250	
R15	150	32		1300		1.2		200	
R18	180	25		1200		1.35		180	
R22	220	25		1150		1.95		160	
R24	240	28		950		2.3		160	
R27	270	28		900		2.6		150	
R33	330	27		800		3.6		130	
R39	390	27		700		4.8		120	

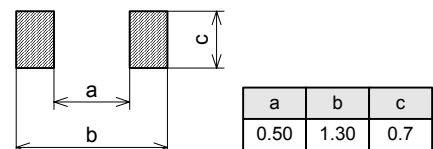
Inductance and Q test frequency

(MHz)	C1608CB L,Q	C1608H L,Q
250	1.5~39nH	2.7~39nH
200	47~68nH	47nH
150	72~150nH	-
100	180~390nH	-

Inductance range

Tolerance	C1608CB	C1608H
±10%(K)	1.5~6.8nH	2.7nH
±5%(J)	3.6~390nH	3.6~47nH
±2%(G)	10~390nH	10~47nH

Recommended Land Pattern



Parts code

C1608CB	15N	J
Type	Inductance code	Tolerance

Notes: 1. Allowable DC current : A rise in temperature of inductor surface is within 20°C.



SAGAMI ELEC CO., LTD.

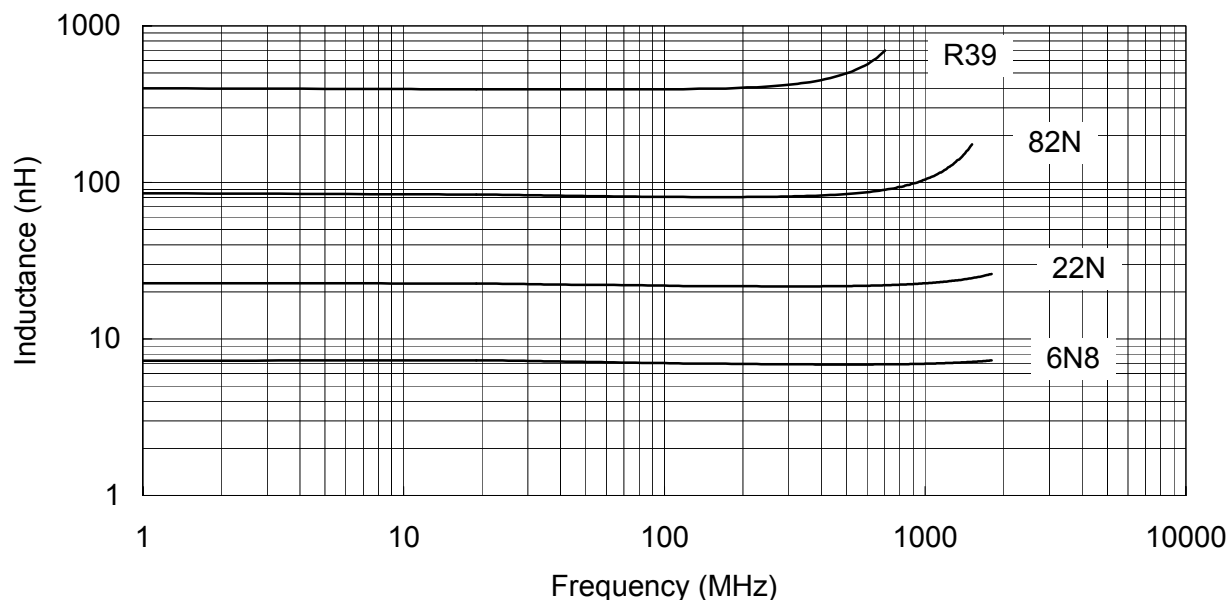
10-30, ICHIBASHIMOCHO, TSURUMI-KU
YOKOHAMA, KANAGAWA 230-0024, JAPAN

<http://www.sagami-elec.co.jp>

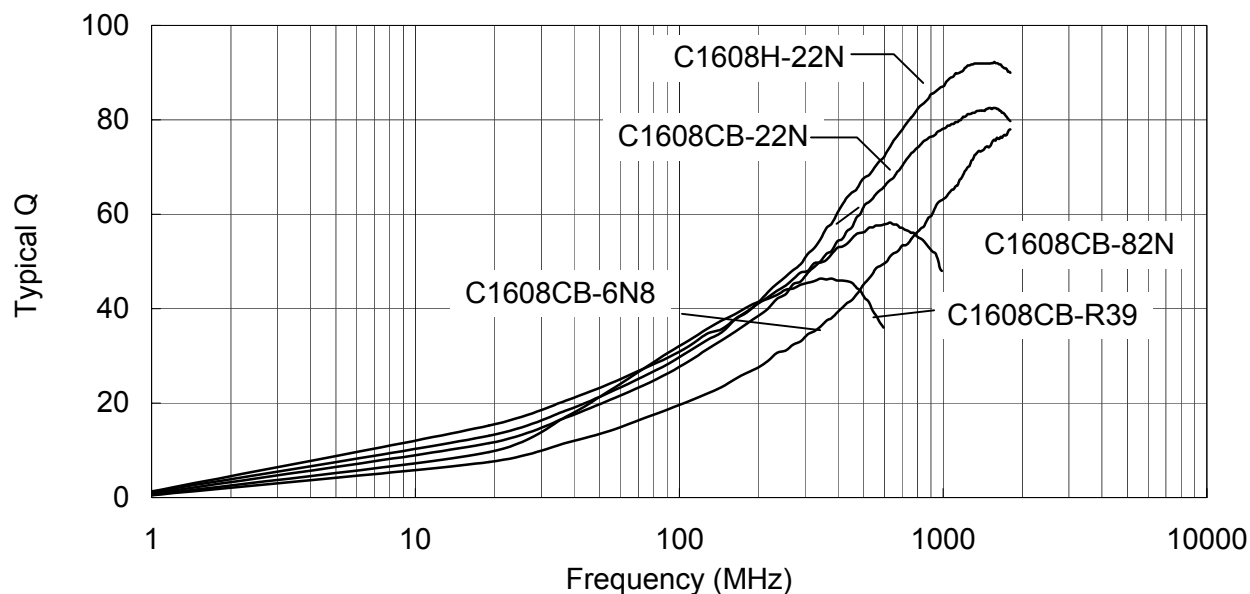
Chip Inductors for Surface Mounting

Type C1608CB/H Series Electric Characteristics

C1608CB/H-Inductance vs Frequency



C1608CB/H-Typical Q vs Frequency



Notes: Graphs for characteristics are based on typical values of respective type, not specific values.