

Chip Inductors

WELL

For High Frequency Use Monolithic Type **SWEL1005C** Series

SWEL1005C Series

Small Size Multilayer Chip Inductor for High Frequency High Q, Stable Inductance in High Freq. Range.

小尺寸且適用於高頻、高Q 值及在高頻帶有穩定感值應用的積層晶片電感。



Features

1. Monolithic inorganic material construction.
2. Closed magnetic circuit avoids crosstalk.
3. S.M.T. type.
4. Suitable for flow and reflow soldering.
5. Shapes and dimensions follow E.I.A. spec.
6. Available in various sizes.
7. Excellent solderability and heat resistance.
8. High SRF up to 6GHz and above.
9. The products contain no lead and also support lead-free soldering.

Applications

Wireless communications, cellular phone, cordless phone, pager, etc..

Miscellaneous high-frequency circuits. EMI countermeasure in high-frequency circuits.

Lead Free Part Numbering

SWEL	1005	C	10N	J
A	B	C	D	E

A : Series

B : Dimension A x B

C :

D : Inductance 10N=10nH

E : Inductance Tolerance S= $\pm 0.3\text{nH}$, J= $\pm 5\%$, K= $\pm 10\%$

特徵

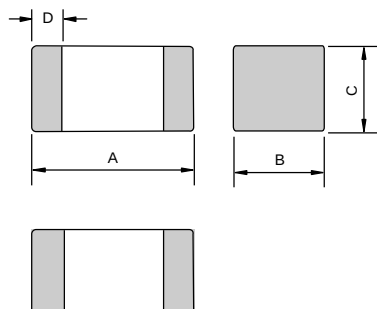
1. 單石無機材料結構。
2. 封閉磁路避免干擾。
3. 表面黏著型式。
4. 適合一般焊接及迴焊。
5. 形狀與尺寸符合E.I.A.標準。
6. 多種尺寸可供選擇。
7. 絕佳之焊錫性與耐熱性。
8. 至少6GHz 的自我共振頻率。
9. 產品無鉛適合無鉛鉛錫。

應用

無線通訊、行動電話、無線電話、傳呼機.....等等。

各式各樣的高頻電路、高頻電路的EMI對策。

Dimensions



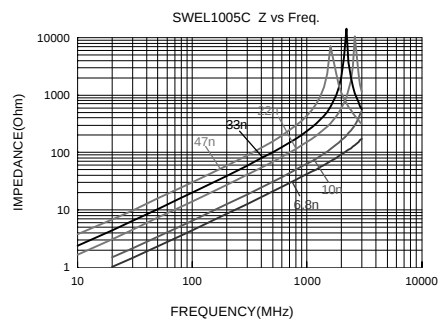
Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1005	1.0 $\pm$ 0.1	0.5 $\pm$ 0.1	0.5 $\pm$ 0.1	0.25 $\pm$ 0.1
1608	1.6 $\pm$ 0.15	0.8 $\pm$ 0.15	0.8 $\pm$ 0.15	0.3 $\pm$ 0.2
2012	2.0 $\pm$ 0.2	1.25 $\pm$ 0.2	0.85 $\pm$ 0.2	0.5 $\pm$ 0.3
			1.25 $\pm$ 0.2	

■ SWEL1005C Series

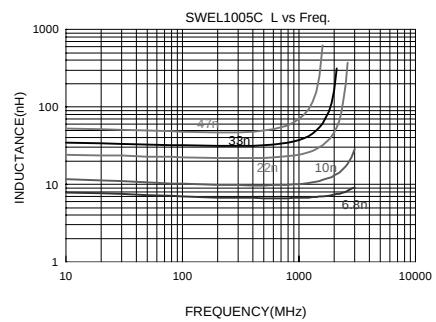
Part Number	Thickness C Size (mm)	Inductance		Q @ 100MHz		Rated Current (mA) max.	DCR (Ω) max.	SRF(MHz)	
		(nH)	Test Frequency (MHz)	Nominal Value	min.			typ.	min.
SWEL1005C1N0S	0.5 ± 0.1	1.0	100	11	8	300	0.09	>13000	10000
SWEL1005C1N2S	0.5 ± 0.1	1.2	100	11	8	300	0.09	>13000	10000
SWEL1005C1N5S	0.5 ± 0.1	1.5	100	11	8	300	0.12	>13000	6000
SWEL1005C1N8S	0.5 ± 0.1	1.8	100	11	8	300	0.12	11000	6000
SWEL1005C2N2S	0.5 ± 0.1	2.2	100	10	8	300	0.14	10000	6000
SWEL1005C2N7S	0.5 ± 0.1	2.7	100	10	8	300	0.14	9000	6000
SWEL1005C3N3S	0.5 ± 0.1	3.3	100	10	8	300	0.16	8000	6000
SWEL1005C3N9S	0.5 ± 0.1	3.9	100	10	8	300	0.19	7000	4000
SWEL1005C4N7S	0.5 ± 0.1	4.7	100	10	8	300	0.21	6000	4000
SWEL1005C5N6S	0.5 ± 0.1	5.6	100	10	8	300	0.23	5700	4000
SWEL1005C6N8J	0.5 ± 0.1	6.8	100	10	8	300	0.25	5500	3900
SWEL1005C8N2J	0.5 ± 0.1	8.2	100	10	8	300	0.28	4900	3600
SWEL1005C10NJ	0.5 ± 0.1	10	100	10	8	300	0.31	4300	3200
SWEL1005C12NJ	0.5 ± 0.1	12	100	11	8	300	0.40	3900	2700
SWEL1005C15NJ	0.5 ± 0.1	15	100	11	8	300	0.50	3500	2300
SWEL1005C18NJ	0.5 ± 0.1	18	100	11	8	300	0.55	3100	2100
SWEL1005C22NJ	0.5 ± 0.1	22	100	11	8	300	0.60	2800	1900
SWEL1005C27NJ	0.5 ± 0.1	27	100	11	8	300	0.70	2300	1600
SWEL1005C33NJ	0.5 ± 0.1	33	100	11	8	300	0.80	1900	1300
SWEL1005C39NJ	0.5 ± 0.1	39	100	11	8	200	1.00	1700	1200
SWEL1005C47NJ	0.5 ± 0.1	47	100	11	8	200	1.20	1500	1000
SWEL1005C56NJ	0.5 ± 0.1	56	100	11	8	200	1.30	1300	750
SWEL1005C68NJ	0.5 ± 0.1	68	100	11	8	180	2.00	1200	750
SWEL1005C82NJ	0.5 ± 0.1	82	100	10	8	150	2.20	1100	600
SWEL1005CR10J	0.5 ± 0.1	100	100	10	8	150	2.50	1000	600
SWEL1005CR12J	0.5 ± 0.1	120	100	10	8	150	2.70	800	600

NOTE: □ :TOLERANCE S: +/0.3nH J: +/5% K: +/10%

■ Impedance v.s. Frequency Characteristics



■ Inductance v.s. Frequency Characteristics



■ Q v.s. Frequency Characteristics

