

## *Data Sheet*

Customer: \_\_\_\_\_

Product: Wire Wound Chip Inductor – SWI Series \_\_\_\_\_

Size : 0402/0603/0805/1008/1210 \_\_\_\_\_

Issued Date: 23-September-2014 \_\_\_\_\_

Edition: Ver. 3 \_\_\_\_\_

### Record of change

Date	Ver.	Description	Page
23-Sep.-2014	1		
04-Aug.2015	2	Add item SWI 1008 CT 4N7	14
16-Dec.-2015	3	Dimension and package Q'ty change	2&23

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23-Sep.-2014	23-Sep.-2014	23-Sep.-2014	
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# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## ■ Introductions

The SWI series are chip inductors widely used in the communication applications such as cellular phones, pagers, and other electronic devices. The wire wound features advance in higher self resonate frequency, better Q factor, and much more stable performance.

## ■ Features

- \* Excellent solderability and resistance to soldering heat.
- \* Suitable for flow and reflow soldering.
- \* Good dimensions, high reliability, and easy surface mount assembly.
- \* At least 3 types of materials provide wide range of inductance value for flexible needs.

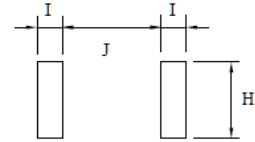
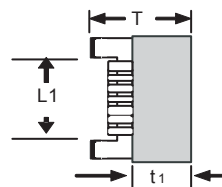
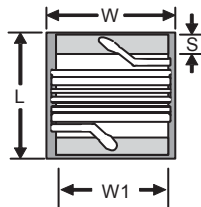
**Ceramic type** : For lower inductance with high Q factor at high frequency and stable circuit requirement.

**Ferrite type** : For higher inductance at lower frequency circuit requirement.

**High Current** : For high current required circuit requirement

## ■ Chip Dimension

Unit:mm



Recommended Patterns

Type	Size	Length	Width	Thickness	Terminal	Ceramic Type		Ferrite Type		(t1)	H	I	J
SWI	(inch)	(L) max	(W) max	(T) max	(S)	L1(Ref)	W1(Ref)	L1(Ref)	W1(Ref)	Ref.			
	0402	1.20	0.64	0.61	0.23±0.05	0.56	0.51	-	-	0.15	0.66	0.36	0.46
	0603	1.80	1.12	1.02	0.33±0.10	0.86	0.76	0.95	1.05	0.38	1.02	0.64	0.64
	0805	2.29	1.73	1.52	0.44±0.10	1.02	1.27	1.02	1.27	0.51	1.78	1.02	0.76
	1008	2.92	2.79	2.13	0.51±0.10	1.52	2.03	1.52	2.03	0.65	2.54	1.02	1.27
	1210	3.42	2.80	2.30	0.51±0.10	2.05	2.10	2.10	2.40	0.51	2.20	1.02	2.30

## ■ Part Numbering

SWI	0603	C	T	3N3	J	□□
SERIES	SIZE	MATERIAL	PACKAGE	INDUCTANCE	TOLERANCE	INTERNAL CODE
Wire Wound	0402	C =Ceramic	T= Tape&Reel	3N3= 3.3nH	B= ±0.15nH	
	0603	F =Ferrite		33N= 33nH	S= ±0.30nH	
	0805	H =High Current		R33= 0.33uH	G= ±2%	
	1008			3R3= 3.3uH	J= ±5%	
	1210			330= 33 uH	K= ±10%	
				331= 330uH	M= ±20%	

■ **Construction & Dimension**

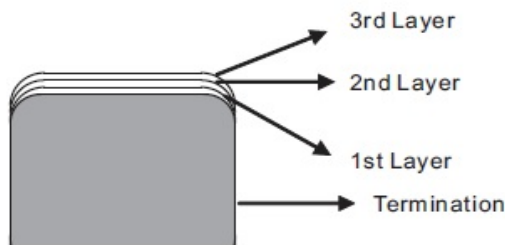
- \* Please refer to the figure and table in previous pages.
- \* Terminal: SWI series terminals shall consist of MoMn alloy or PdAg alloy followed by Nickel, then Au or solder plating for easier soldering.

■ **Operating Temperature Range:**

Operating Temperature Range is the scope of ambient temperature at which the inductors can be operated continuously at rated current.

- \* Ceramic Type: -40 to +125°C
- \* Ferrite Type: -40 to +85°C

■ **Ingredient of Terminals Electrode:**



	<b>Ceramic Type</b>	<b>Ferrite Type</b>
1)1st layer:	Mo/Mn or W or Ag	Ag/Pd
2)2nd layer:	Nickel	Nickel
3)3rd layer:	Sn	Sn

■ **Characteristics:**

Standard Test Condition:

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows:

- \* Ambient Temperature: 25°C ± 2°C
- \* Relative Humidity : 60% to 70%
- \* AirPressure : 86 Kpa to 106 Kpa

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## ■ Electrical Specification

### Size 0402 Ceramic Type

Part No.	Inductance	Q (min)	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( nH )	250 MHz	(%)	(MHz)	(OHM)	(mA)
SWI 0402CT 1N0□□□	1.0	16	K	12700	0.045	1360
SWI 0402CT 2N0□□□	2.0	16	K	11100	0.070	1040
SWI 0402CT 2N2□□□	2.2	19	K	10800	0.070	960
SWI 0402CT 2N7□□□	2.7	16	K	10400	0.120	640
SWI 0402CT 3N3□□□	3.3	19	K	7000	0.066	840
SWI 0402CT 3N6□□□	3.6	19	K, J	6800	0.066	840
SWI 0402CT 3N9□□□	3.9	19	K, J	5800	0.066	840
SWI 0402CT 4N3□□□	4.3	18	K, J	6000	0.091	700
SWI 0402CT 4N7□□□	4.7	18	K, J	4700	0.130	640
SWI 0402CT 5N1□□□	5.1	20	K, J	4800	0.083	800
SWI 0402CT 5N6□□□	5.6	20	K, J	4800	0.083	760
SWI 0402CT 6N8□□□	6.8	20	K, J	4800	0.083	680
SWI 0402CT 7N5□□□	7.5	22	K, J	4800	0.104	680
SWI 0402CT 8N2□□□	8.2	22	K, J	4400	0.104	680
SWI 0402CT 10N□□□	10	21	K, J, G	3900	0.195	480
SWI 0402CT 12N□□□	12	24	K, J, G	3600	0.120	640
SWI 0402CT 15N□□□	15	24	K, J, G	3280	0.172	560
SWI 0402CT 18N□□□	18	25	K, J, G	3100	0.230	420
SWI 0402CT 22N□□□	22	25	K, J, G	2800	0.300	400
SWI 0402CT 27N□□□	27	24	K, J, G	2480	0.300	400
SWI 0402CT 33N□□□	33	24	K, J, G	2350	0.350	400
SWI 0402CT 39N□□□	39	25	K, J, G	2100	0.550	200
SWI 0402CT 47N□□□	47	25	K, J, G	2100	0.830	150
SWI 0402CT 56N□□□	56	25	K, J, G	1760	0.970	100
SWI 0402CT 68N□□□	68	22	K, J, G	1620	1.120	100

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0603 Ceramic Type/Standard

Part No.	Inductance	Q	Test Frequency	Tol. (%)	900 (MHz)		1.7 (GHz)		SRF (GHz) min	RDC ( $\Omega$ )max	IDC (mA)max
	( nH )	(min)			L typ.	Q typ.	L typ.	Q typ.			
SWI 0603 CT 1N8 □□□	1.8	16	250MHZ	K, J	1.83	35	1.86	50	12.5	0.045	700
SWI 0603 CT 2N2 □□□	2.2	15	250MHZ	K, J	2.22	31	2.24	44	5.80	0.100	700
SWI 0603 CT 3N3 □□□	3.3	22	250MHZ	K, J, G	3.31	75	3.38	88	5.50	0.070	700
SWI 0603 CT 3N9 □□□	3.9	22	250MHZ	K, J, G	3.95	49	3.96	67	5.90	0.080	700
SWI 0603 CT 4N7 □□□	4.7	25	250MHZ	K, J, G	4.72	47	4.75	57	5.80	0.116	700
SWI 0603 CT 6N8 □□□	6.8	27	250MHZ	K, J, G	6.75	60	7.10	81	5.80	0.110	700
SWI 0603 CT 8N2 □□□	8.2	27	250MHZ	K, J, G	8.25	82	8.37	87	5.80	0.120	700
SWI 0603 CT 10N □□□	10	31	250MHZ	K, J, G	10.0	66	10.6	83	4.80	0.130	700
SWI 0603 CT 12N □□□	12	35	250MHZ	K, J, G	12.3	72	13.5	83	4.00	0.130	700
SWI 0603 CT 15N □□□	15	35	250MHZ	K, J, G	15.4	64	16.8	89	4.00	0.170	700
SWI 0603 CT 18N □□□	18	35	250MHZ	K, J, G	18.7	70	21.4	69	3.10	0.170	700
SWI 0603 CT 22N □□□	22	38	250MHZ	K, J, G	22.8	73	26.1	71	3.00	0.190	700
SWI 0603 CT 24N □□□	24	38	250MHZ	K, J, G	25.7	45	30.9	40	2.80	0.130	700
SWI 0603 CT 27N □□□	27	40	250MHZ	K, J, G	29.2	74	34.6	65	2.80	0.220	600
SWI 0603 CT 33N □□□	33	40	250MHZ	K, J, G	36.0	67	49.5	42	2.30	0.220	600
SWI 0603 CT 39N □□□	39	40	250MHZ	K, J, G	42.7	60	60.2	40	2.20	0.250	600
SWI 0603 CT 47N □□□	47	38	200MHZ	K, J, G	52.2	62	77.2	35	2.00	0.280	600
SWI 0603 CT 56N □□□	56	38	200MHZ	K, J, G	62.5	56	97.0	26	1.90	0.310	600
SWI 0603 CT 68N □□□	68	37	200MHZ	K, J, G	80.5	54	168	21	1.70	0.340	600
SWI 0603 CT 72N □□□	72	34	150MHZ	K, J, G	82.0	53	135	20	1.70	0.490	400
SWI 0603 CT 82N □□□	82	34	150MHZ	K, J, G	96.2	54	177	21	1.70	0.540	400
SWI 0603 CT R10 □□□	100	34	150MHZ	K, J, G	124	49	319.5	13	1.40	0.580	400
SWI 0603 CT R12 □□□	120	32	150MHZ	K, J, G	166	39	529.3	8	1.30	0.650	300
SWI 0603 CT R15 □□□	150	28	100MHZ	K, J, G	230	25	-	-	0.99	0.920	280
SWI 0603 CT R18 □□□	180	25	100MHZ	K, J, G	305	22	-	-	0.99	1.250	240
SWI 0603 CT R22 □□□	220	25	100MHZ	K, J, G	377	21	-	-	0.90	1.900	200
SWI 0603 CT R27 □□□	270	25	100MHZ	K, J, G	523	19	-	-	0.90	2.300	170
SWI 0603 CT R33 □□□	330	25	100MHZ	K, J, G	680.4	20	-	-	0.90	3.900	100
SWI 0603 CT R39 □□□	390	25	100MHZ	K, J, G	734.5	29	-	-	0.90	4.350	100
SWI 0603 CT R47 □□□	470	23	100MHZ	K, J, G	-	-	-	-	0.60	3.600	80

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0603 Ceramic Type/High Current

Part No.	Inductance	Q (min)	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( nH )	250 MHz	(%)	(GHz)	( $\Omega$ )	(mA)
SWI 0603 HT 1N6□□□	1.6	24	K, J	12.5	0.030	2400
SWI 0603 HT 3N6□□□	3.6	24	K, J	5.90	0.048	2300
SWI 0603 HT 3N9□□□	3.9	25	K, J	5.90	0.054	2200
SWI 0603 HT 6N8□□□	6.8	35	K, J	5.80	0.054	2100
SWI 0603 HT 7N5□□□	7.5	38	K, J	3.70	0.059	2100
SWI 0603 HT 8N2□□□	8.2	38	K, J	3.70	0.060	2000
SWI 0603 HT 10N□□□	10	38	K, J, G	3.70	0.071	2000
SWI 0603 HT 12N□□□	12	38	K, J, G	3.00	0.075	2000
SWI 0603 HT 15N□□□	15	38	K, J, G	2.80	0.080	1900
SWI 0603 HT 18N□□□	18	40	K, J, G	2.80	0.099	1900
SWI 0603 HT 22N□□□	22	42	K, J, G	2.40	0.099	1800
SWI 0603 HT 24N□□□	24	42	K, J, G	2.40	0.105	1800

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0603 Ferrite Type/Standard

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( uH )	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI 0603 FT R47□□□	0.47	15	7.96	J, K	540	0.620	420
SWI 0603 FT R56□□□	0.56	15	7.96	J, K	525	0.440	550
SWI 0603 FT R68□□□	0.68	15	7.96	J, K	260	0.520	470
SWI 0603 FT R82□□□	0.82	15	7.96	J, K	410	0.690	400
SWI 0603 FT 1R0□□□	1.0	15	7.96	J, K	390	0.416	860
SWI 0603 FT 1R5□□□	1.5	16	7.96	J, K	160	0.520	720
SWI 0603 FT 1R8□□□	1.8	16	7.96	J, K	121	0.559	640
SWI 0603 FT 2R2□□□	2.2	16	7.96	J, K	103	0.728	600
SWI 0603 FT 2R7□□□	2.7	16	7.96	J, K	72	0.806	540
SWI 0603 FT 3R3□□□	3.3	16	7.96	J, K	66	0.910	500
SWI 0603 FT 3R9□□□	3.9	16	7.96	J, K	61	1.079	460
SWI 0603 FT 4R7□□□	4.7	16	7.96	J, K	51	1.261	400
SWI 0603 FT 5R6□□□	5.6	16	7.96	J, K	47	1.430	380
SWI 0603 FT 6R8□□□	6.8	16	7.96	J, K	43	1.950	340
SWI 0603 FT 8R2□□□	8.2	16	7.96	J, K	40	2.184	300
SWI 0603 FT 10□□□	10	14	2.52	J, K	36	2.405	280
SWI 0603 FT 12□□□	12	14	2.52	J, K	32	2.964	260
SWI 0603 FT 15□□□	15	14	2.52	J, K	29	3.380	240
SWI 0603 FT 18□□□	18	14	2.52	J, K	28	3.770	220
SWI 0603 FT 22□□□	22	14	2.52	J, K	24	4.693	200
SWI 0603 FT 27□□□	27	14	2.52	J, K	20	6.760	140
SWI 0603 FT 33□□□	33	14	2.52	J, K	15	8.580	120

- \* Tolerance: K=±10%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0603 Ferrite Type/High Current

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 0603 HT 47N□□□	0.047	12	7.96	K	2000	0.075	1800
SWI 0603 HT 56N□□□	0.056	12	7.96	K	1500	0.075	1800
SWI 0603 HT 68N□□□	0.068	12	7.96	K	1500	0.12	1800
SWI 0603 HT 72N□□□	0.072	12	7.96	K	1500	0.12	1800
SWI 0603 HT R10□□□	0.10	12	7.96	K	1150	0.13	1700
SWI 0603 HT R12□□□	0.12	12	7.96	K, J	1100	0.15	1700
SWI 0603 HT R15□□□	0.15	15	7.96	K, J	1050	0.15	1600
SWI 0603 HT R18□□□	0.18	15	7.96	K, J	950	0.15	1500
SWI 0603 HT R22□□□	0.22	15	7.96	K, J	900	0.30	1200
SWI 0603 HT R24□□□	0.24	15	7.96	K, J	850	0.16	1460
SWI 0603 HT R27□□□	0.27	15	7.96	K, J	835	0.30	1460
SWI 0603 HT R33□□□	0.33	15	7.96	K, J	725	0.40	1420
SWI 0603 HT R39□□□	0.39	15	7.96	K, J	680	0.41	1400
SWI 0603 HT R47□□□	0.47	15	7.96	K, J	640	0.43	1400
SWI 0603 HT R56□□□	0.56	15	7.96	K, J	630	0.44	1400
SWI 0603 HT R68□□□	0.68	15	7.96	K, J	510	0.52	1340
SWI 0603 HT R78□□□	0.78	15	7.96	K, J	465	0.63	1300
SWI 0603 HT R82□□□	0.82	15	7.96	K, J	460	0.69	1200
SWI 0603 HT 1R0□□□	1.0	15	7.96	K, J	320	0.81	1100
SWI 0603 HT 1R2□□□	1.2	15	7.96	K, J	270	0.87	1000
SWI 0603 HT 1R5□□□	1.5	15	7.96	K, J	230	0.96	920
SWI 0603 HT 1R8□□□	1.8	15	7.96	K, J	210	1.10	900
SWI 0603 HT 2R2□□□	2.2	15	7.96	K, J	115	1.20	740
SWI 0603 HT 2R7□□□	2.7	15	7.96	K, J	100	1.38	700
SWI 0603 HT 3R3□□□	3.3	15	7.96	K, J	84	1.50	680
SWI 0603 HT 3R9□□□	3.9	15	7.96	K, J	75	1.50	600
SWI 0603 HT 4R7□□□	4.7	15	7.96	K, J	67	2.10	580
SWI 0603 HT 5R6□□□	5.6	15	7.96	K, J	55	2.37	540
SWI 0603 HT 6R8□□□	6.8	15	7.96	K, J	48	3.10	500
SWI 0603 HT 7R8□□□	7.8	15	7.96	K, J	40	3.35	460
SWI 0603 HT 8R2□□□	8.2	15	7.96	K, J	38	3.50	440
SWI 0603 HT 100□□□	10	15	7.96	K, J	32	4.46	400

- \* Tolerance: K= $\pm$ 10%, J= $\pm$ 5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.



# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0805 Ceramic Type/Standard

Part No.	Inductance		Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)	
	( nH )		(%)	Min	Test Freq.	(MHz)	( $\Omega$ )	(mA)	
SWI 0805 CT 2N2 □□□	2.2	@	250 MHz	K, J	35	1500 MHz	3000	0.08	600
SWI 0805 CT 2N7 □□□	2.7	@	250 MHz	K, J	80	1500 MHz	7900	0.06	800
SWI 0805 CT 3N0 □□□	3.0	@	250 MHz	K, J	65	1500 MHz	7900	0.06	800
SWI 0805 CT 3N3 □□□	3.3	@	250 MHz	K, J	50	1500 MHz	6000	0.08	600
SWI 0805 CT 5N6 □□□	5.6	@	250 MHz	K, J	65	1000 MHz	5500	0.08	600
SWI 0805 CT 6N2 □□□	6.2	@	250 MHz	K, J	50	1000 MHz	5500	0.11	600
SWI 0805 CT 6N8 □□□	6.8	@	250 MHz	K, J	50	1000 MHz	5500	0.11	600
SWI 0805 CT 7N5 □□□	7.5	@	250 MHz	K, J	50	1000 MHz	4500	0.14	600
SWI 0805 CT 8N2 □□□	8.2	@	250 MHz	K, J	50	1000 MHz	4700	0.12	600
SWI 0805 CT 10N □□□	10	@	250 MHz	K, J, G	60	500 MHz	4200	0.10	600
SWI 0805 CT 12N □□□	12	@	250 MHz	K, J, G	50	500 MHz	4000	0.15	600
SWI 0805 CT 15N □□□	15	@	250 MHz	K, J, G	50	500 MHz	3400	0.17	600
SWI 0805 CT 18N □□□	18	@	250 MHz	K, J, G	50	500 MHz	3300	0.20	600
SWI 0805 CT 22N □□□	22	@	250 MHz	K, J, G	55	500 MHz	2600	0.22	500
SWI 0805 CT 24N □□□	24	@	250 MHz	K, J, G	50	500 MHz	2000	0.22	500
SWI 0805 CT 27N □□□	27	@	250 MHz	K, J, G	55	500 MHz	2500	0.25	500
SWI 0805 CT 33N □□□	33	@	250 MHz	K, J, G	60	500 MHz	2050	0.27	500
SWI 0805 CT 36N □□□	36	@	250 MHz	K, J, G	55	500 MHz	1700	0.27	500
SWI 0805 CT 39N □□□	39	@	250 MHz	K, J, G	60	500 MHz	2000	0.29	500
SWI 0805 CT 43N □□□	43	@	200 MHz	K, J, G	60	500 MHz	1650	0.34	500
SWI 0805 CT 47N □□□	47	@	200 MHz	K, J, G	60	500 MHz	1650	0.31	500
SWI 0805 CT 56N □□□	56	@	200 MHz	K, J, G	60	500 MHz	1550	0.34	500
SWI 0805 CT 68N □□□	68	@	200 MHz	K, J, G	60	500 MHz	1450	0.38	500
SWI 0805 CT 72N □□□	72	@	150 MHz	K, J, G	65	500 MHz	1400	0.40	500
SWI 0805 CT 82N □□□	82	@	150 MHz	K, J, G	65	500 MHz	1300	0.42	400
SWI 0805 CT 91N □□□	91	@	150 MHz	K, J, G	65	500 MHz	1200	0.48	400
SWI 0805 CT R10 □□□	100	@	150 MHz	K, J, G	65	500 MHz	1200	0.46	400
SWI 0805 CT R11 □□□	110	@	150 MHz	K, J, G	50	250 MHz	1000	0.48	400
SWI 0805 CT R12 □□□	120	@	150 MHz	K, J, G	50	250 MHz	1100	0.51	400
SWI 0805 CT R15 □□□	150	@	100 MHz	K, J, G	50	250 MHz	920	0.56	400
SWI 0805 CT R18 □□□	180	@	100 MHz	K, J, G	50	250 MHz	870	0.64	400
SWI 0805 CT R20 □□□	200	@	100 MHz	K, J, G	50	250 MHz	860	0.66	400
SWI 0805 CT R22 □□□	220	@	100 MHz	K, J, G	50	250 MHz	850	0.70	400
SWI 0805 CT R24 □□□	240	@	100 MHz	K, J, G	44	250 MHz	690	1.00	350
SWI 0805 CT R27 □□□	270	@	100 MHz	K, J, G	48	250 MHz	650	1.00	350
SWI 0805 CT R30 □□□	300	@	100 MHz	K, J, G	48	250 MHz	620	1.20	330
SWI 0805 CT R33 □□□	330	@	100 MHz	K, J, G	48	250 MHz	600	1.40	310
SWI 0805 CT R36 □□□	360	@	100 MHz	K, J, G	48	250 MHz	580	1.45	300
SWI 0805 CT R39 □□□	390	@	100 MHz	K, J, G	48	250 MHz	560	1.50	290

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0805 Ceramic Type/Standard

Part No.	Inductance		Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)	
	( nH )		(%)	Min	Test Freq.	(MHz)	( $\Omega$ )	(mA)	
SWI 0805 CT R43 □□□	430	@	50 MHz	K, J, G	33	100 MHz	430	1.70	230
SWI 0805 CT R47 □□□	470	@	50 MHz	K, J, G	33	100 MHz	375	1.70	250
SWI 0805 CT R56 □□□	560	@	25 MHz	K, J, G	23	50 MHz	340	1.90	230
SWI 0805 CT R62 □□□	620	@	25 MHz	K, J, G	23	50 MHz	220	2.20	210
SWI 0805 CT R68 □□□	680	@	25 MHz	K, J, G	23	50 MHz	200	2.20	190
SWI 0805 CT R75 □□□	820	@	25 MHz	K, J, G	23	50 MHz	200	2.30	180
SWI 0805 CT R82 □□□	820	@	25 MHz	K, J, G	23	50 MHz	200	2.35	180
SWI 0805 CT 1R0 □□□	1000	@	25 MHz	K, J, G	20	50 MHz	100	2.50	170
SWI 0805 CT 1R2 □□□	1200	@	7.9 MHz	K, J, G	18	25 MHz	100	2.50	170
SWI 0805 CT 1R5 □□□	1500	@	7.9 MHz	K, J, G	16	25 MHz	100	2.50	170
SWI 0805 CT 1R8 □□□	1800	@	7.9 MHz	K, J, G	16	7.9 MHz	80	2.50	170
SWI 0805 CT 2R2 □□□	2200	@	7.9 MHz	K, J, G	16	7.9 MHz	60	2.70	160
SWI 0805 CT 2R7 □□□	2700	@	7.9 MHz	K, J, G	16	7.9 MHz	50	3.10	150
SWI 0805 CT 3R3 □□□	3300	@	7.9 MHz	K, J, G	15	7.9 MHz	40	4.40	90
SWI 0805 CT 4R7 □□□	4700	@	7.9 MHz	K, J, G	15	7.9 MHz	40	6.40	90

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0805 Ceramic Type/High Current

Part No.	Inductance			Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)
	( nH )			(%)	Min	Test Freq.	(MHz)	(Ω)	(mA)
SWI 0805 HT 2N5 □□□	2.5	@	250 MHz	K, J	80	1500 MHz	6000	0.020	1600
SWI 0805 HT 5N6 □□□	5.6	@	250 MHz	K, J	98	1500 MHz	6000	0.035	1600
SWI 0805 HT 6N2 □□□	6.2	@	250 MHz	K, J	88	1000 MHz	4750	0.035	1600
SWI 0805 HT 6N8 □□□	6.8	@	250 MHz	K, J	80	1000 MHz	4400	0.035	1600
SWI 0805 HT 8N2 □□□	8.2	@	250 MHz	K, J	75	1000 MHz	3000	0.075	1000
SWI 0805 HT 10N □□□	10	@	250 MHz	K, J	80	1000 MHz	3000	0.060	1600
SWI 0805 HT 12N □□□	12	@	250 MHz	K, J	80	1000 MHz	3000	0.045	1600
SWI 0805 HT 15N □□□	15	@	250 MHz	K, J, G	80	1000 MHz	2800	0.100	1200
SWI 0805 HT 16N □□□	16	@	250 MHz	K, J, G	72	500 MHz	2950	0.060	1500
SWI 0805 HT 18N □□□	18	@	250 MHz	K, J, G	75	500 MHz	2550	0.060	1400
SWI 0805 HT 20N □□□	20	@	250 MHz	K, J, G	70	500 MHz	2050	0.055	1400
SWI 0805 HT 22N □□□	22	@	250 MHz	K, J, G	80	500 MHz	2000	0.100	1200
SWI 0805 HT 27N □□□	27	@	250 MHz	K, J, G	75	500 MHz	2000	0.070	1300
SWI 0805 HT 30N □□□	30	@	250 MHz	K, J, G	65	500 MHz	1950	0.095	1200
SWI 0805 HT 39N □□□	39	@	250 MHz	K, J, G	65	500 MHz	1600	0.110	1100
SWI 0805 HT 48N □□□	48	@	200 MHz	K, J, G	65	500 MHz	1400	0.095	1200
SWI 0805 HT 51N □□□	51	@	200 MHz	K, J, G	65	500 MHz	1400	0.120	1000

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0805 Ferrite Type

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 0805 FT R12 □□□	0.12	20	25.2	K, J	700	0.18	1100
SWI 0805 FT R15 □□□	0.15	20	25.2	K, J	900	0.18	1100
SWI 0805 FT R18 □□□	0.18	20	25.2	K, J	600	0.20	800
SWI 0805 FT R22 □□□	0.22	20	25.2	K, J	550	0.25	700
SWI 0805 FT R27 □□□	0.27	20	25.2	K, J	550	0.38	700
SWI 0805 FT R33 □□□	0.33	20	25.2	K, J	550	0.35	650
SWI 0805 FT R39 □□□	0.39	20	25.2	K, J	420	0.35	600
SWI 0805 FT R47 □□□	0.47	20	25.2	K, J	350	0.45	600
SWI 0805 FT R56 □□□	0.56	20	25.2	K, J	300	0.45	550
SWI 0805 FT R68 □□□	0.68	20	25.2	K, J	300	0.60	500
SWI 0805 FT R82 □□□	0.82	20	25.2	K, J	300	0.55	500
SWI 0805 FT 1R0 □□□	1.0	15	7.96	K, J	280	0.80	450
SWI 0805 FT 1R2 □□□	1.2	15	7.96	K, J	280	0.90	400
SWI 0805 FT 1R5 □□□	1.5	15	7.96	K, J	250	1.05	350
SWI 0805 FT 1R8 □□□	1.8	15	7.96	K, J	120	1.00	350
SWI 0805 FT 2R2 □□□	2.2	15	7.96	K, J	110	1.10	320
SWI 0805 FT 2R7 □□□	2.7	15	7.96	K, J	70	1.20	320
SWI 0805 FT 3R3 □□□	3.3	15	7.96	K, J	60	1.50	300
SWI 0805 FT 3R9 □□□	3.9	15	7.96	K, J	55	1.75	300
SWI 0805 FT 4R7 □□□	4.7	15	7.96	K, J	45	2.10	200
SWI 0805 FT 5R6 □□□	5.6	15	7.96	K, J	40	2.30	250
SWI 0805 FT 6R8 □□□	6.8	15	7.96	K, J	36	2.70	200
SWI 0805 FT 8R2 □□□	8.2	15	7.96	K, J	33	3.30	180
SWI 0805 FT 100 □□□	10.0	10	2.52	K, J	30	4.50	180
SWI 0805 FT 120 □□□	12.0	16	2.52	K, J	37	2.80	220
SWI 0805 FT 150 □□□	15.0	16	2.52	K, J	30	3.80	200
SWI 0805 FT 180 □□□	18.0	16	2.52	K, J	23	4.48	180
SWI 0805 FT 220 □□□	22.0	16	2.52	K, J	20	6.30	160
SWI 0805 FT 270 □□□	27.0	16	2.52	K, J	19	6.85	140
SWI 0805 FT 330 □□□	33.0	16	2.52	K, J	18	7.60	120
SWI 0805 FT 390 □□□	39.0	15	2.52	K, J	16	8.20	100

- \* Tolerance: K=±10%, J=±5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 0805 Ferrite Type/High Current

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 0805 HT R47 □□□	0.47	14	25.2	K, J	850	0.156	1400
SWI 0805 HT R68 □□□	0.68	14	25.2	K, J	765	0.195	1200
SWI 0805 HT 1R0 □□□	1.0	14	7.96	K, J	208	0.169	1100
SWI 0805 HT 1R2 □□□	1.2	14	7.96	K, J	159	0.208	960
SWI 0805 HT 1R5 □□□	1.5	14	7.96	K, J	159	0.221	920
SWI 0805 HT 1R8 □□□	1.8	14	7.96	K, J	112	0.260	860
SWI 0805 HT 2R2 □□□	2.2	13	7.96	K, J	87	0.286	740
SWI 0805 HT 2R7 □□□	2.7	13	7.96	K, J	72	0.325	680
SWI 0805 HT 3R3 □□□	3.3	12	7.96	K, J	70	0.364	620
SWI 0805 HT 3R9 □□□	3.9	14	7.96	K, J	61	0.494	580
SWI 0805 HT 4R7 □□□	4.7	14	7.96	K, J	51	0.559	520
SWI 0805 HT 5R6 □□□	5.6	12	7.96	K, J	47	0.650	480
SWI 0805 HT 6R8 □□□	6.8	14	7.96	K, J	46	0.884	420
SWI 0805 HT 8R2 □□□	8.2	13	7.96	K, J	33	0.949	400
SWI 0805 HT 100 □□□	10	14	2.52	K, J	31	1.105	360
SWI 0805 HT 120 □□□	12	14	2.52	K, J	30	1.17	340
SWI 0805 HT 150 □□□	15	15	2.52	K, J	28	1.82	300
SWI 0805 HT 180 □□□	18	15	2.52	K, J	27	2.01	280
SWI 0805 HT 220 □□□	22	15	2.52	K, J	20	2.28	240
SWI 0805 HT 270 □□□	27	15	2.52	K, J	17	2.60	220
SWI 0805 HT 330 □□□	33	15	2.52	K, J	17	3.05	200
SWI 0805 HT 470 □□□	47	14	2.52	K, J	15	4.42	160
SWI 0805 HT 560 □□□	56	14	2.52	K, J	10	5.74	150
SWI 0805 HT 680 □□□	68	14	2.52	K, J	10	5.78	140
SWI 0805 HT 820 □□□	82	14	2.52	K, J	10	9.75	100
SWI 0805 HT 101 □□□	100	10	1.00	K, J	9	9.75	100

- \* Tolerance: K=±10%, J=±5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 1008 Ceramic Type

Part No.	Inductance		Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)	
	(nH)		(%)	Min	Test Freq.	(Mhz)	(OHM)	(mA)	
SWI 1008 CT 4N7 □□□	4.7	@	50 MHZ	K, J	50	1500 MHZ	4000	0.15	1000
SWI 1008 CT 5N6 □□□	5.6	@	50 MHZ	K, J	50	1500 MHZ	4000	0.15	1000
SWI 1008 CT 10N □□□	10	@	50 MHZ	K, J, G	50	500 MHZ	4100	0.08	1000
SWI 1008 CT 12N □□□	12	@	50 MHZ	K, J, G	50	500 MHZ	3300	0.09	1000
SWI 1008 CT 15N □□□	15	@	50 MHZ	K, J, G	50	500 MHZ	2500	0.11	1000
SWI 1008 CT 18N □□□	18	@	50 MHZ	K, J, G	50	350 MHZ	2400	0.12	1000
SWI 1008 CT 22N □□□	22	@	50 MHZ	K, J, G	55	350 MHZ	2400	0.12	1000
SWI 1008 CT 24N □□□	24	@	50 MHZ	K, J, G	55	350 MHZ	1900	0.13	1000
SWI 1008 CT 27N □□□	27	@	50 MHZ	K, J, G	55	350 MHZ	1600	0.13	1000
SWI 1008 CT 33N □□□	33	@	50 MHZ	K, J, G	60	350 MHZ	1600	0.14	1000
SWI 1008 CT 39N □□□	39	@	50 MHZ	K, J, G	60	350 MHZ	1500	0.15	1000
SWI 1008 CT 47N □□□	47	@	50 MHZ	K, J, G	65	350 MHZ	1500	0.16	1000
SWI 1008 CT 56N □□□	56	@	50 MHZ	K, J, G	65	350 MHZ	1300	0.18	1000
SWI 1008 CT 68N □□□	68	@	50 MHZ	K, J, G	65	350 MHZ	1300	0.20	1000
SWI 1008 CT 82N □□□	82	@	50 MHZ	K, J, G	60	350 MHZ	1000	0.22	1000
SWI 1008 CT R10 □□□	100	@	25 MHZ	K, J, G	60	350 MHZ	1000	0.56	650
SWI 1008 CT R12 □□□	120	@	25 MHZ	K, J, G	60	350 MHZ	950	0.63	650
SWI 1008 CT R15 □□□	150	@	25 MHZ	K, J, G	45	100 MHZ	850	0.70	800
SWI 1008 CT R18 □□□	180	@	25 MHZ	K, J, G	45	100 MHZ	750	0.77	620
SWI 1008 CT R20 □□□	200	@	25 MHZ	K, J, G	45	100 MHZ	700	0.81	500
SWI 1008 CT R22 □□□	220	@	25 MHZ	K, J, G	45	100 MHZ	700	0.84	500
SWI 1008 CT R24 □□□	240	@	25 MHZ	K, J, G	50	100 MHZ	650	0.88	500
SWI 1008 CT R27 □□□	270	@	25 MHZ	K, J, G	45	100 MHZ	600	0.91	690
SWI 1008 CT R30 □□□	300	@	25 MHZ	K, J, G	40	100 MHZ	585	1.00	450
SWI 1008 CT R33 □□□	330	@	25 MHZ	K, J, G	45	100 MHZ	570	1.05	450
SWI 1008 CT R36 □□□	360	@	25 MHZ	K, J, G	45	100 MHZ	530	1.10	470
SWI 1008 CT R39 □□□	390	@	25 MHZ	K, J, G	45	100 MHZ	500	1.12	630
SWI 1008 CT R43 □□□	430	@	25 MHZ	K, J, G	45	100 MHZ	480	1.15	470
SWI 1008 CT R47 □□□	470	@	25 MHZ	K, J, G	45	100 MHZ	450	1.19	470
SWI 1008 CT R56 □□□	560	@	25 MHZ	K, J, G	45	100 MHZ	415	1.33	580
SWI 1008 CT R62 □□□	620	@	25 MHZ	K, J, G	45	100 MHZ	375	1.40	300
SWI 1008 CT R68 □□□	680	@	25 MHZ	K, J, G	45	100 MHZ	375	1.47	540
SWI 1008 CT R75 □□□	750	@	25 MHZ	K, J, G	45	100 MHZ	360	1.54	360
SWI 1008 CT R82 □□□	820	@	25 MHZ	K, J, G	45	100 MHZ	350	1.61	400
SWI 1008 CT R91 □□□	910	@	25 MHZ	K, J, G	35	50 MHZ	320	1.68	380
SWI 1008 CT 1R0 □□□	1000	@	25 MHZ	K, J, G	35	50 MHZ	290	1.75	370
SWI 1008 CT 1R2 □□□	1200	@	7.9 MHZ	K, J, G	35	50 MHZ	250	2.00	310
SWI 1008 CT 1R5 □□□	1500	@	7.9 MHZ	K, J, G	28	50 MHZ	200	2.30	330
SWI 1008 CT 1R8 □□□	1800	@	7.9 MHZ	K, J, G	28	50 MHZ	160	2.60	300

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 1008 Ceramic Type

Part No.	Inductance		Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)	
	( nH )		(%)	Min	Test Freq.	(Mhz)	(OHM)	(mA)	
SWI 1008 CT 2R2 □□□	2200	@	7.9 MHZ	K, J, G	28	50 MHZ	160	2.80	280
SWI 1008 CT 2R7 □□□	2700	@	7.9 MHZ	K, J, G	22	25 MHZ	140	3.20	290
SWI 1008 CT 3R3 □□□	3300	@	7.9 MHZ	K, J, G	22	25 MHZ	110	3.40	290
SWI 1008 CT 3R9 □□□	3900	@	7.9 MHZ	K, J, G	18	25 MHZ	100	3.60	260
SWI 1008 CT 4R7 □□□	4700	@	7.9 MHZ	K, J, G	18	25 MHZ	90	4.00	260
SWI 1008 CT 5R6 □□□	5600	@	7.9 MHZ	K, J, G	16	7.96 MHZ	20	4.00	240
SWI 1008 CT 6R8 □□□	6800	@	7.9 MHZ	K, J, G	15	7.96 MHZ	40	4.90	200
SWI 1008 CT 8R2 □□□	8200	@	7.9 MHZ	K, J, G	15	7.96 MHZ	25	6.00	170
SWI 1008 CT 100 □□□	10000	@	2.52 MHZ	K, J, G	15	7.96 MHZ	20	9.00	150
SWI 1008 CT 120 □□□	12000	@	2.52 MHZ	K, J, G	15	7.96 MHZ	18	10.50	130
SWI 1008 CT 150 □□□	15000	@	2.52 MHZ	K, J, G	15	7.96 MHZ	15	11.50	120

- \* Tolerance: K=±10%, J=±5%, G=±2%
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 1008 Ferrite Type

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 1008 FT R12 □□□	0.12	26	25.2	K, J	800	0.30	1000
SWI 1008 FT R18 □□□	0.18	30	25.2	K, J	600	0.30	960
SWI 1008 FT R20 □□□	0.20	30	25.2	K, J	735	0.30	960
SWI 1008 FT R22 □□□	0.22	27	25.2	K, J	600	0.40	880
SWI 1008 FT R27 □□□	0.27	29	25.2	K, J	425	0.42	900
SWI 1008 FT R33 □□□	0.33	30	25.2	K, J	400	0.42	900
SWI 1008 FT R39 □□□	0.39	30	25.2	K, J	375	0.45	700
SWI 1008 FT R47 □□□	0.47	30	25.2	K, J	350	0.50	900
SWI 1008 FT R56 □□□	0.56	30	25.2	K, J	325	0.55	850
SWI 1008 FT R68 □□□	0.68	30	25.2	K, J	300	0.55	800
SWI 1008 FT R75 □□□	0.75	30	25.2	K, J	420	0.65	880
SWI 1008 FT R82 □□□	0.82	30	25.2	K, J	260	0.65	700
SWI 1008 FT 1R0 □□□	1.0	25	7.96	K, J	245	0.60	600
SWI 1008 FT 1R2 □□□	1.2	25	7.96	K, J	230	0.74	600
SWI 1008 FT 1R5 □□□	1.5	25	7.96	K, J	182	0.85	550
SWI 1008 FT 1R8 □□□	1.8	25	7.96	K, J	135	0.92	500
SWI 1008 FT 2R2 □□□	2.2	25	7.96	K, J	105	1.10	500
SWI 1008 FT 2R7 □□□	2.7	25	7.96	K, J	70	1.22	350
SWI 1008 FT 3R3 □□□	3.3	25	7.96	K, J	55	1.37	350
SWI 1008 FT 3R9 □□□	3.9	25	7.96	K, J	48	1.66	310
SWI 1008 FT 4R7 □□□	4.7	25	7.96	K, J	43	1.68	300
SWI 1008 FT 5R6 □□□	5.6	25	7.96	K, J	42	1.75	300
SWI 1008 FT 6R8 □□□	6.8	25	7.96	K, J	39	1.85	300
SWI 1008 FT 8R2 □□□	8.2	25	7.96	K, J	36	2.00	250
SWI 1008 FT 100 □□□	10	20	2.52	K, J	33	2.32	250
SWI 1008 FT 120 □□□	12	15	2.52	K, J	28	2.99	200
SWI 1008 FT 150 □□□	15	15	2.52	K, J	24	3.42	200
SWI 1008 FT 180 □□□	18	15	2.52	K, J	20	4.65	180
SWI 1008 FT 220 □□□	22	15	2.52	K, J	18	5.12	180
SWI 1008 FT 270 □□□	27	15	2.52	K, J	17	5.76	160
SWI 1008 FT 330 □□□	33	15	2.52	K, J	16	6.44	120
SWI 1008 FT 390 □□□	39	15	2.52	K, J	15	6.85	120
SWI 1008 FT 470 □□□	47	14	2.52	K, J	13	9.94	110
SWI 1008 FT 560 □□□	56	14	2.52	K, J	10	10.7	90
SWI 1008 FT 680 □□□	68	14	2.52	K, J	8	12.8	90
SWI 1008 FT 820 □□□	82	14	2.52	K, J	8	18.3	80
SWI 1008 FT 101 □□□	100	8	1.00	K, J	7	19.6	120

- \* Tolerance: K=±10%, J=±5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.



# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 1008 Ferrite Type/High Current

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 1008 HT R22 □□□	0.22	35	25.2	K, J	800	0.15	2600
SWI 1008 HT R47 □□□	0.47	35	25.2	K, J	460	0.20	2400
SWI 1008 HT R68 □□□	0.68	35	25.2	K, J	400	0.30	2200
SWI 1008 HT R82 □□□	0.82	35	25.2	K, J	360	0.35	1800
SWI 1008 HT 1R0 □□□	1.0	22	7.96	K, J	245	0.35	800
SWI 1008 HT 1R2 □□□	1.2	25	7.96	K, J	230	0.40	550
SWI 1008 HT 1R5 □□□	1.5	25	7.96	K, J	182	0.45	550
SWI 1008 HT 1R8 □□□	1.8	25	7.96	K, J	135	0.55	550
SWI 1008 HT 2R2 □□□	2.2	22	7.96	K, J	105	0.60	500
SWI 1008 HT 2R7 □□□	2.7	25	7.96	K, J	70	0.70	500
SWI 1008 HT 3R3 □□□	3.3	22	7.96	K, J	55	0.75	450
SWI 1008 HT 3R9 □□□	3.9	25	7.96	K, J	50	0.80	450
SWI 1008 HT 4R7 □□□	4.7	22	7.96	K, J	45	0.90	400
SWI 1008 HT 5R6 □□□	5.6	22	7.96	K, J	42	1.05	400
SWI 1008 HT 6R8 □□□	6.8	22	7.96	K, J	40	1.05	400
SWI 1008 HT 8R2 □□□	8.2	22	7.96	K, J	36	1.30	350
SWI 1008 HT 100 □□□	10	20	2.52	K, J	35	1.55	300
SWI 1008 HT 120 □□□	12	20	2.52	K, J	30	2.10	280
SWI 1008 HT 150 □□□	15	20	2.52	K, J	24	2.38	250
SWI 1008 HT 180 □□□	18	20	2.52	K, J	20	2.60	200
SWI 1008 HT 220 □□□	22	20	2.52	K, J	18	2.92	200
SWI 1008 HT 330 □□□	33	20	2.52	K, J	16	4.10	180
SWI 1008 HT 470 □□□	47	23	2.52	K, J	17	7.80	350
SWI 1008 HT 101 □□□	100	13	1.00	K, J	4	13.2	200
SWI 1008 HT 221 □□□	220	13	1.00	K, J	3	26.5	140
SWI 1008 HT 331 □□□	330	13	1.00	K, J	2	32.5	110

- \* Tolerance: K=±10%, J=±5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## Size 1210 Ceramic Type

Part No.	Inductance		Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)	
	(nH)		(%)	Min	Test Freq.	(MHz)	(Ω)	(mA)	
SWI 1210 CT 4N7 □□□	4.7	@	100 MHz	B, S	50	1000 MHz	6000	0.06	1000
SWI 1210 CT 5N6 □□□	5.6	@	100 MHz	K, J	50	1000 MHz	5500	0.08	1000
SWI 1210 CT 10N □□□	10	@	100 MHz	K, J, G	60	500 MHz	4000	0.06	1000
SWI 1210 CT 12N □□□	12	@	100 MHz	K, J, G	60	500 MHz	3400	0.06	1000
SWI 1210 CT 15N □□□	15	@	100 MHz	K, J, G	60	500 MHz	3200	0.06	1000
SWI 1210 CT 18N □□□	18	@	100 MHz	K, J, G	60	300 MHz	2800	0.06	1000
SWI 1210 CT 22N □□□	22	@	100 MHz	K, J, G	60	300 MHz	2100	0.08	1000
SWI 1210 CT 27N □□□	27	@	100 MHz	K, J, G	60	300 MHz	1900	0.08	1000
SWI 1210 CT 33N □□□	33	@	100 MHz	K, J, G	60	300 MHz	1700	0.08	1000
SWI 1210 CT 39N □□□	39	@	100 MHz	K, J, G	60	300 MHz	1700	0.08	1000
SWI 1210 CT 47N □□□	47	@	100 MHz	K, J, G	60	300 MHz	1400	0.08	1000
SWI 1210 CT 56N □□□	56	@	100 MHz	K, J, G	60	300 MHz	1100	0.10	1000
SWI 1210 CT 68N □□□	68	@	100 MHz	K, J, G	60	300 MHz	1000	0.10	1000
SWI 1210 CT 82N □□□	82	@	100 MHz	K, J, G	60	300 MHz	1000	0.10	1000
SWI 1210 CT R10 □□□	100	@	100 MHz	K, J, G	60	300 MHz	900	0.10	1000
SWI 1210 CT R12 □□□	120	@	50 MHz	K, J, G	60	300 MHz	900	0.12	800
SWI 1210 CT R15 □□□	150	@	50 MHz	K, J, G	60	300 MHz	800	0.18	800
SWI 1210 CT R18 □□□	180	@	50 MHz	K, J, G	60	300 MHz	760	0.21	800
SWI 1210 CT R22 □□□	220	@	50 MHz	K, J, G	60	300 MHz	660	0.27	800
SWI 1210 CT R27 □□□	270	@	50 MHz	K, J, G	50	300 MHz	600	0.33	700
SWI 1210 CT R33 □□□	330	@	50 MHz	K, J, G	50	100 MHz	550	0.37	650
SWI 1210 CT R39 □□□	390	@	50 MHz	K, J, G	50	100 MHz	500	0.63	600
SWI 1210 CT R47 □□□	470	@	50 MHz	K, J, G	50	100 MHz	450	0.69	550
SWI 1210 CT R56 □□□	560	@	50 MHz	K, J, G	50	100 MHz	400	0.90	450
SWI 1210 CT R68 □□□	680	@	25 MHz	K, J, G	50	100 MHz	380	1.05	400
SWI 1210 CT R82 □□□	820	@	25 MHz	K, J, G	50	100 MHz	350	1.45	350
SWI 1210 CT 1R0 □□□	1000	@	25 MHz	K, J, G	45	100 MHz	300	1.90	280
SWI 1210 CT 1R2 □□□	1200	@	7.96 MHz	K, J, G	45	50 MHz	300	2.20	250
SWI 1210 CT 1R5 □□□	1500	@	7.96 MHz	K, J, G	45	50 MHz	250	2.43	220
SWI 1210 CT 1R8 □□□	1800	@	7.96 MHz	K, J, G	45	50 MHz	200	3.36	180
SWI 1210 CT 2R2 □□□	2200	@	7.96 MHz	K, J, G	45	50 MHz	200	3.50	150
SWI 1210 CT 3R3 □□□	3300	@	7.96 MHz	K, J, G	25	25 MHz	140	10.0	50

- \* Tolerance: K=±10%, J=±5%, G=±2%, B=±0.2nH, S=±0.3nH
- \* Operating Temperature: -40°C to +125°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4287
- \* DC Resistance RDC measured in Micro-ohm meter
- \* Unspecified values available on request.

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

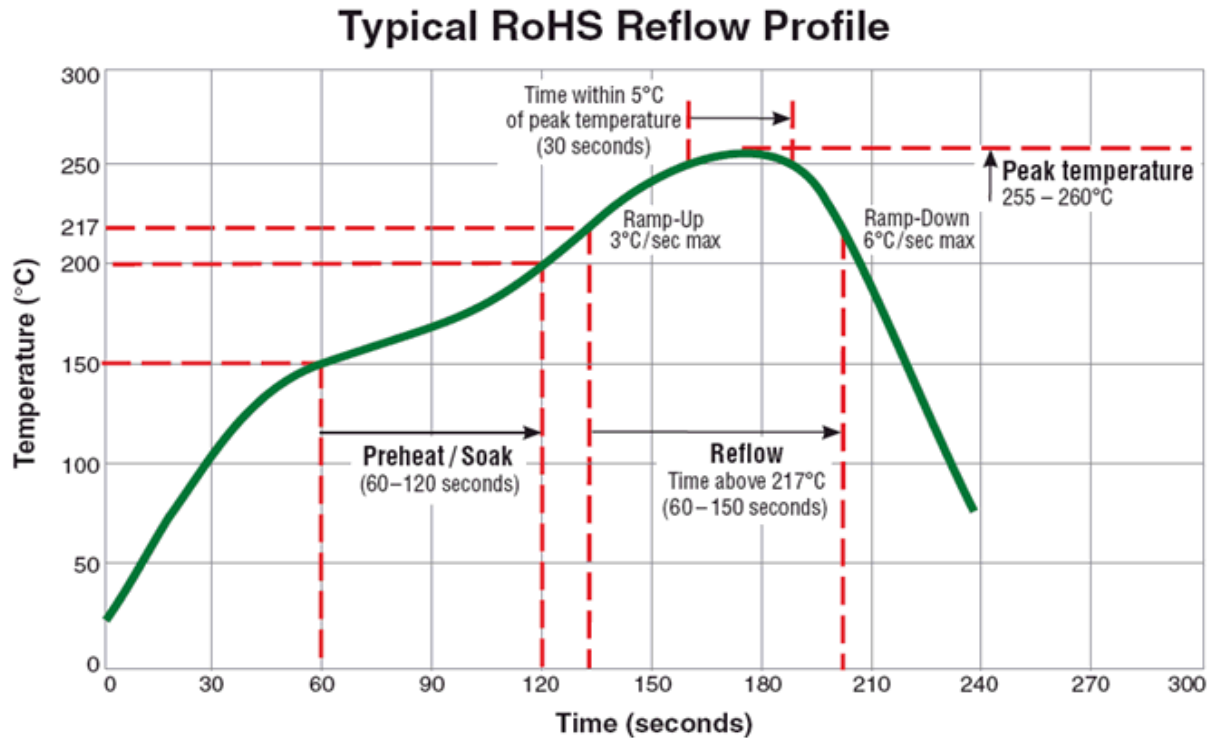
## Size 1210 Ferrite Type

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI 1210 FT 1R2 □-□□	1.2	30	7.96	K, J	100	0.70	390
SWI 1210 FT 1R5 □-□□	1.5	30	7.96	K, J	85	0.75	370
SWI 1210 FT 1R8 □-□□	1.8	30	7.96	K, J	80	0.80	350
SWI 1210 FT 2R2 □-□□	2.2	30	7.96	K, J	75	0.90	320
SWI 1210 FT 2R7 □-□□	2.7	30	7.96	K, J	70	1.10	290
SWI 1210 FT 3R3 □-□□	3.3	30	7.96	K, J	60	1.40	260
SWI 1210 FT 3R9 □-□□	3.9	30	7.96	K, J	55	1.70	250
SWI 1210 FT 4R7 □-□□	4.7	20	7.96	K, J	50	2.30	220
SWI 1210 FT 5R6 □-□□	5.6	20	7.96	K, J	47	1.60	200
SWI 1210 FT 6R8 □-□□	6.8	20	7.96	K, J	43	2.20	180
SWI 1210 FT 8R2 □-□□	8.2	20	7.96	K, J	40	2.40	170
SWI 1210 FT 100 □-□□	10	15	2.52	K, J	36	3.28	150
SWI 1210 FT 120 □-□□	12	15	2.52	K, J	33	3.40	140
SWI 1210 FT 150 □-□□	15	15	2.52	K, J	30	3.90	125
SWI 1210 FT 180 □-□□	18	15	2.52	K, J	27	4.20	110
SWI 1210 FT 220 □-□□	22	15	2.52	K, J	25	6.00	90
SWI 1210 FT 270 □-□□	27	15	2.52	K, J	20	6.80	80
SWI 1210 FT 330 □-□□	33	15	2.52	K, J	17	7.50	70
SWI 1210 FT 390 □-□□	39	15	2.52	K, J	16	8.00	65
SWI 1210 FT 470 □-□□	47	15	2.52	K, J	15	8.50	60

- \* Tolerance: K= $\pm$ 10%, J= $\pm$ 5%
- \* Operating Temperature: -40°C to +85°C
- \* Inductance & Q value measured in HP4286 or HP4291
- \* SRF measured in HP4291
- \* DC Resistance RDC measured in Agilent 34401A
- \* Unspecified values available on request.

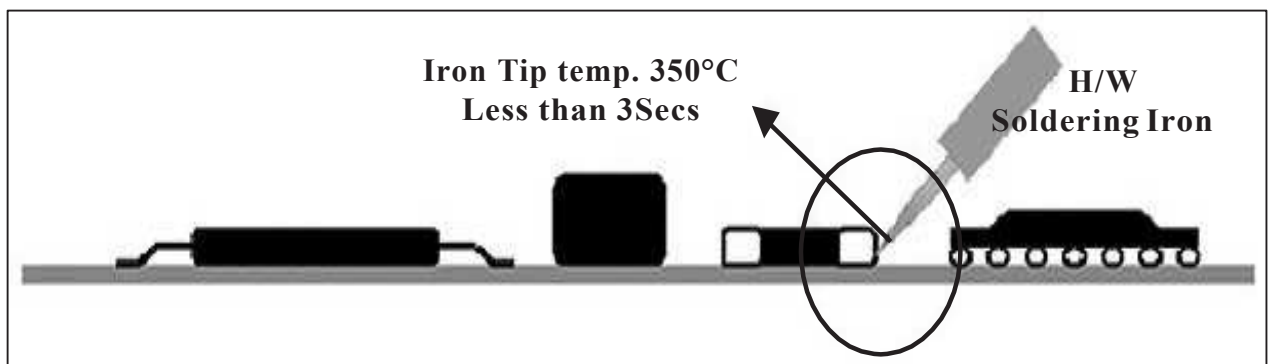
■ **Soldering Profile**

**Reflow Soldering**



**Manual Soldering**

Soldering iron tip temperature: 350°C max / within 3 seconds.



# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

## ■ Specification & Test Method

	ITEM	CONDITION	SPECIFICATION
<b>Mechanical Characteristics</b>	Inductance and Tolerance	Measuring Frequency : As shown in Product Table	Within Specified Tolerance
	Quality Factor	Measuring Temperature : + 25 °C	
	Insulation Resistance	Measured at 100V DC between inductor terminals and center of case.	1000 mega ohms minimum
	Dielectric Withstanding Voltage	Measured at 500V AC between inductor terminals and center of case for a maximum of 1 minute.	No damage occurs when the test voltage is applied.
	Temperature Coefficient of Inductance (TCL)	Over - 40 °C to + 85 °C at frequency specified in Product Table.	+ 25 to 500 ppm / °C  TCL= $L1-L2 \times 106$ (ppm / °C) L1(T1-T2)
	<b>Electrical Characteristics</b>	Component Adhesion (Push Test)	The component shall be reflow soldered onto a P. C. Board ( 240 °C ± 5°C for 20 seconds ). Then a dynamometer force gauge shall be applied to any side of the component.
Drop Test		The inductor shall be dropped two times on the concrete floor or the vinyl tile from 1M naturally.	Change In Inductance: No more than 5%  Change In Q: No more than 10%
Thermal Shock Test		Each cycle shall consist of 30 minutes at -40 °C followed by 30 minutes at +85 °C with a 20-second maximum transition time between temperature extremes. Test duration is 10 cycles.	Change In Appearance: Without distinct damage

# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

	ITEM	CONDITION	SPECIFICATION
<b>Endurance Characteristics</b>	Solderability	Dip pads in flux and dip in solder pot containing lead free solder at 240 °C ± 5°C for 5 seconds.	A minimum of 80% of the metalized area must be covered with solder.
	Resistance to Soldering Heat	Dip the components into flux and dip into solder pot containing lead free solder at 260 °C ± 5 °C for 5 ± 2 seconds.	
	Vibration (Random)	Inductors shall be randomly vibrated at amplitude of 1.5mm and frequency of 10 - 55 Hz: 0.04 G / Hz for a minimum of 15 minutes per axis for each of the three axes.	Change In Inductance: No more than 5% Change In Q: No more than 10%
	Cold Temperature Storage	Inductors shall be stored at temperature of -40 °C±2 °C for 1000hrs (+48-0 hrs.) Then inductors shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	Change In Appearance : Without distinct damage
	High Temperature Storage	Inductors shall be stored at temperature of 85 °C ± 2 °C for 1000hrs (+48 - 0hrs.) Then inductors shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	
	Moisture Resistance	Inductors shall be stored in the chamber at 45 °C at 90 - 95 R. H. for 1000 hours. Then inductors are to be tested after 2 hours at room temperature.	
	High Temperature with Loaded	Inductors shall be stored in the chamber at +85°C for 1000 hours with rated current applied. Inductors shall be tested at the beginning of test at 500 hours and 1000 hours. Then inductors are to be tested after 1 hour at room temperature.	Inductors shall not have a shorted or open winding.

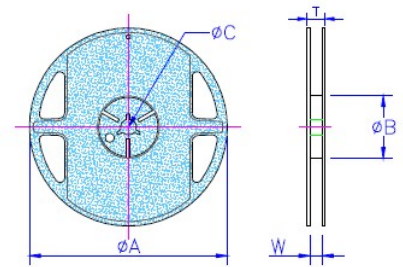
# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

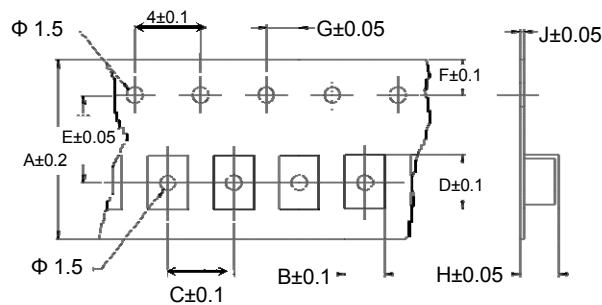
## ■ Packaging

### Packaging Quantity & Reel Specifications

Type	ΦA	ΦB	ΦC	W	T	Quantity (EA)
SWI0603	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	4000
SWI0805	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	2000
SWI1008	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	CT: 3000
SWI1008	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	FT: 2000
SWI1210	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	2000



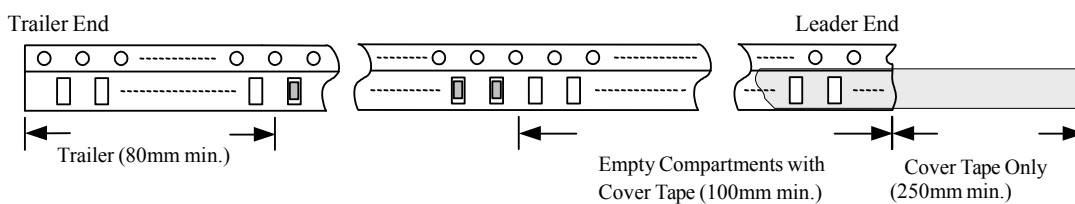
### Embossed Plastic Tape Specifications



Unit: mm

Type	A	B	C	D	E	F	G	H	J
SWI0603	8	1.25	4	1.90	3.5	1.75	2	1.00	0.23
SWI0805	8	1.85	4	2.55	3.5	1.75	2	1.45	0.23
SWI1008	8	2.80	4	2.95	3.5	1.75	2	2.22	0.23
SWI1210	8	2.96	4	3.60	3.5	1.75	2	2.40	0.23

### Leader / Trailer Tape



### Cover Tape Peel Strength

The force for tearing off cover tape is 0.1~0.6 (N) in the arrow direction at the following conditions: Temperature: 5~35°C

Humidity: 45~85%

Atmospheric Pressure: 860~1060 hpa

