

## *Data Sheet*

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

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

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

Issued Date: 17-September-2020 \_\_\_\_\_

Edition: Ver. 4 \_\_\_\_\_

### 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
17-Sep.-2020	4	Parameters updated, delete 1210 size	-

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Prepared by	Checked by	Approved by	Accepted by (customer)
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.

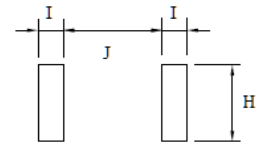
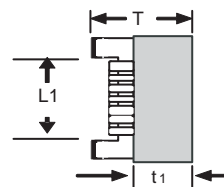
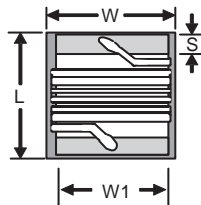
**Ceramic type** : For lower inductance with high Q factor at high frequency and stable circuit requirement.

**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	0.54	0.50-	0.15	0.66	0.50	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

## ■ Part Numbering

<b>SWI</b>	<b>0603</b>	<b>C</b>	<b>T</b>	<b>3N3</b>	<b>J</b>	<input type="checkbox"/> <input type="checkbox"/>
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%	
				330= 33 uH	K= ±10%	
				331= 330uH	M= ±20%	

■ **Construction & Dimension**

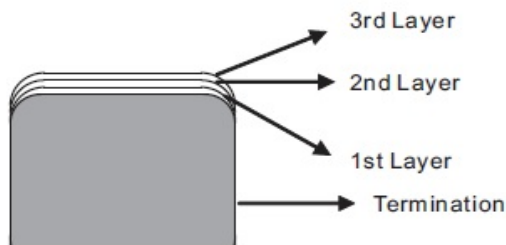
- \* Please refer to the figure and table in previous pages.
- \* Terminal: SWI series terminals shall consist of MoMn alloy or PdAg alloy followed by Nickel, then Au or solder plating for easier soldering.

■ **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)
SWI0402CT1N0□□□	1.0	16	K	12700	0.045	1360
SWI0402CT2N0□□□	2.0	16	K	11100	0.070	1040
SWI0402CT2N2□□□	2.2	19	K	10800	0.070	960
SWI0402CT2N7□□□	2.7	16	K	10400	0.120	640
SWI0402CT3N3□□□	3.3	19	K	7000	0.066	840
SWI0402CT3N6□□□	3.6	19	K, J	6800	0.066	840
SWI0402CT3N9□□□	3.9	19	K, J	5800	0.066	840
SWI0402CT4N3□□□	4.3	18	K, J	6000	0.091	700
SWI0402CT4N7□□□	4.7	18	K, J	4700	0.130	640
SWI0402CT5N1□□□	5.1	20	K, J	4800	0.083	800
SWI0402CT5N6□□□	5.6	20	K, J	4800	0.083	760
SWI0402CT6N8□□□	6.8	20	K, J	4800	0.083	680
SWI0402CT7N5□□□	7.5	22	K, J	4800	0.104	680
SWI0402CT8N2□□□	8.2	22	K, J	4400	0.104	680
SWI0402CT10N□□□	10	21	K, J, G	3900	0.195	480
SWI0402CT12N□□□	12	24	K, J, G	3600	0.120	640
SWI0402CT15N□□□	15	24	K, J, G	3280	0.172	560
SWI0402CT18N□□□	18	25	K, J, G	3100	0.230	420
SWI0402CT22N□□□	22	25	K, J, G	2800	0.300	400
SWI0402CT27N□□□	27	24	K, J, G	2480	0.300	400
SWI0402CT33N□□□	33	24	K, J, G	2350	0.350	400
SWI0402CT39N□□□	39	25	K, J, G	2100	0.550	200
SWI0402CT47N□□□	47	25	K, J, G	2100	0.830	150
SWI0402CT56N□□□	56	25	K, J, G	1760	0.970	100
SWI0402CT68N□□□	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 0402 Ferrite Type

Part No.	Inductance	Q (min)	Test at	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( nH )	Typ.	(MHz)	(%)	(MHz)	(OHM)	(mA)
SWI0402FT18N□□□	18	10	100	K, J	2600	0.055	1600
SWI0402FT20N□□□	20	10	100	K, J	2600	0.050	1600
SWI0402FT22N□□□	22	10	100	K	2500	0.072	1300
SWI0402FT33N□□□	33	10	100	K, J	2300	0.060	1400
SWI0402FT36N□□□	36	10	100	K, J	2300	0.092	1000
SWI0402FT39N□□□	39	10	100	K, J	2200	0.150	830
SWI0402FT51N□□□	51	10	100	K	1930	0.070	1100
SWI0402FT56N□□□	56	10	100	K	1900	0.125	900
SWI0402FT72N□□□	72	10	100	K, J	1650	0.100	900
SWI0402FT78N□□□	78	10	100	K, J	1600	0.190	850
SWI0402FTR10□□□	100	9	100	K	1400	0.160	900
SWI0402FTR14□□□	140	11	50	K, J	1220	0.260	540
SWI0402FTR18□□□	180	11	50	K	1150	0.330	560
SWI0402FTR20□□□	200	11	50	K, J	1000	0.440	400
SWI0402FTR22□□□	220	11	50	K, J	1150	0.530	380
SWI0402FTR25□□□	250	11	25	K, J	900	0.360	520
SWI0402FTR27□□□	270	11	25	K	860	0.550	360
SWI0402FTR30□□□	300	11	25	K, J	860	0.410	420
SWI0402FTR33□□□	330	11	7.9	K, J	820	0.680	350
SWI0402FTR36□□□	360	11	7.9	K, J	810	0.575	360
SWI0402FTR39□□□	360	11	7.9	K, J	760	0.890	300
SWI0402FTR42□□□	420	11	7.9	K, J	700	1.100	340
SWI0402FTR47□□□	470	11	7.9	K	650	0.730	310
SWI0402FTR56□□□	560	11	7.9	K, J	600	1.100	200

- \* Tolerance: K=±10%, J=±5%
- \* Operating Temperature: -40°C to +85°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 at	Tol.	900 (MHz)		1.7 (GHz)		SRF	RDC	IDC
	( nH )	(min)	MHz	(%)	L typ.	Q typ.	L typ.	Q typ.	(GHz) min	( $\Omega$ )max	(mA)max
SWI0603CT1N8□□□	1.8	16	250	K, J	1.63	35	1.66	50	12.5	0.045	700
SWI0603CT2N2□□□	2.2	15	250	K, J	2.18	41	2.20	64	5.80	0.100	700
SWI0603CT3N3□□□	3.3	22	250	K, J, G	3.35	47	3.40	65	>6	0.080	700
SWI0603CT3N9□□□	3.9	22	250	K, J, G	3.95	49	3.96	67	>6	0.080	700
SWI0603CT4N7□□□	4.7	25	250	K, J, G	4.65	53	4.80	67	5.80	0.120	700
SWI0603CT6N8□□□	6.8	27	250	K, J, G	6.75	60	7.10	81	5.80	0.110	700
SWI0603CT8N2□□□	8.2	27	250	K, J, G	8.25	64	8.40	81	4.80	0.110	700
SWI0603CT10N□□□	10	31	250	K, J, G	10.0	66	10.6	83	4.80	0.130	700
SWI0603CT12N□□□	12	35	250	K, J, G	12.3	72	13.5	83	4.00	0.130	700
SWI0603CT15N□□□	15	35	250	K, J, G	15.4	64	16.8	89	4.00	0.170	700
SWI0603CT18N□□□	18	35	250	K, J, G	18.7	70	21.4	69	3.10	0.170	700
SWI0603CT22N□□□	22	38	250	K, J, G	22.8	73	26.1	71	3.00	0.190	700
SWI0603CT24N□□□	24	38	250	K, J, G	25.7	45	30.9	40	2.80	0.130	700
SWI0603CT27N□□□	27	40	250	K, J, G	29.2	74	34.6	65	2.80	0.220	600
SWI0603CT33N□□□	33	40	250	K, J, G	36.0	67	49.5	42	2.30	0.220	600
SWI0603CT39N□□□	39	40	250	K, J, G	42.7	60	60.2	40	2.20	0.250	600
SWI0603CT47N□□□	47	38	200	K, J, G	52.2	62	77.2	35	2.00	0.280	600
SWI0603CT56N□□□	56	38	200	K, J, G	62.5	56	97.0	26	1.90	0.310	600
SWI0603CT68N□□□	68	37	200	K, J, G	80.5	54	168	21	1.70	0.340	600
SWI0603CT72N□□□	72	34	150	K, J, G	82.0	53	135	20	1.70	0.490	400
SWI0603CT82N□□□	82	34	150	K, J, G	96.2	54	177	21	1.70	0.540	400
SWI0603CTR10□□□	100	34	150	K, J, G	124	49	319.5	13	1.40	0.580	400
SWI0603CTR12□□□	120	32	150	K, J, G	166	39	529.3	8	1.30	0.650	300
SWI0603CTR15□□□	150	28	100	K, J, G	230	25	-	-	1.30	0.950	280
SWI0603CTR18□□□	180	25	100	K, J, G	305	22	-	-	1.25	1.400	250
SWI0603CTR22□□□	220	25	100	K, J, G	377	21	-	-	1.20	1.600	250
SWI0603CTR27□□□	270	25	100	K, J, G	523	19	-	-	0.90	2.100	200
SWI0603CTR33□□□	330	25	100	K, J, G	680.4	20	-	-	0.90	3.800	100
SWI0603CTR39□□□	390	25	100	K, J, G	734.5	29	-	-	0.90	4.350	100
SWI0603CTR47□□□	470	23	100	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)
SWI0603HT1N6□□□	1.6	24	K, J	12.5	0.030	2400
SWI0603HT3N6□□□	3.6	24	K, J	5.90	0.048	2300
SWI0603HT3N9□□□	3.9	25	K, J	5.90	0.054	2200
SWI0603HT6N8□□□	6.8	35	K, J	5.80	0.054	2100
SWI0603HT7N5□□□	7.5	38	K, J	3.70	0.059	2100
SWI0603HT8N2□□□	8.2	38	K, J	3.70	0.060	2000
SWI0603HT10N□□□	10	38	K, J, G	3.70	0.071	2000
SWI0603HT12N□□□	12	38	K, J, G	3.00	0.075	2000
SWI0603HT15N□□□	15	38	K, J, G	2.80	0.080	1900
SWI0603HT18N□□□	18	40	K, J, G	2.80	0.099	1900
SWI0603HT22N□□□	22	42	K, J, G	2.40	0.099	1800
SWI0603HT24N□□□	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)
SWI0603FTR27□□□	0.27	13	7.9	K	900	0.338	950
SWI0603FTR47□□□	0.47	15	7.9	K	900	0.338	920
SWI0603FTR68□□□	0.68	13	7.9	K	650	0.351	920
SWI0603FTR78□□□	0.78	16	7.9	K	410	0.364	920
SWI0603FT1R0□□□	1.0	16	7.9	K	390	0.416	860
SWI0603FT1R5□□□	1.5	16	7.9	K	160	0.520	720
SWI0603FT1R8□□□	1.8	16	7.9	K	121	0.559	640
SWI0603FT2R2□□□	2.2	16	7.9	K	103	0.728	600
SWI0603FT2R7□□□	2.7	16	7.9	K	72	0.806	540
SWI0603FT3R3□□□	3.3	16	7.9	K	66	0.910	500
SWI0603FT3R9□□□	3.9	16	7.9	K	61	1.079	460
SWI0603FT4R7□□□	4.7	16	7.9	K	51	1.261	400
SWI0603FT5R6□□□	5.6	16	7.9	K	47	1.430	380
SWI0603FT6R8□□□	6.8	16	7.9	K	43	1.950	340
SWI0603FT8R2□□□	8.2	16	7.9	K	40	2.184	300
SWI0603FT100□□□	10	14	2.5	K	36	2.405	280
SWI0603FT120□□□	12	14	2.5	K	32	2.964	260
SWI0603FT150□□□	15	14	2.5	K	29	3.380	240
SWI0603FT180□□□	18	14	2.5	K	28	3.770	220
SWI0603FT220□□□	22	14	2.5	K	24	4.693	200
SWI0603FT270□□□	27	14	2.5	K	20	6.760	140
SWI0603FT330□□□	33	14	2.5	K	15	8.580	120
SWI0603FT470□□□	47	12	2.5	K	11	14.560	100

- \* 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)
SWI0603HT47N□□□	0.047	12	7.96	K	2000	0.075	1800
SWI0603HT56N□□□	0.056	12	7.96	K	1500	0.095	2200
SWI0603HT68N□□□	0.068	12	7.96	K	1500	0.12	2200
SWI0603HT72N□□□	0.072	12	7.96	K	1500	0.12	2200
SWI0603HTR10□□□	0.10	12	7.96	K, J	1150	0.13	2200
SWI0603HTR12□□□	0.12	12	7.96	K, J	1100	0.15	1900
SWI0603HTR15□□□	0.15	15	7.96	K, J	1050	0.15	1800
SWI0603HTR18□□□	0.18	15	7.96	K, J	950	0.15	1800
SWI0603HTR22□□□	0.22	15	7.96	K, J	900	0.30	1300
SWI0603HTR24□□□	0.24	15	7.96	K, J	850	0.16	1700
SWI0603HTR27□□□	0.27	15	7.96	K, J	835	0.30	1400
SWI0603HTR33□□□	0.33	15	7.96	K, J	725	0.40	1300
SWI0603HTR39□□□	0.39	15	7.96	K, J	680	0.41	1200
SWI0603HTR47□□□	0.47	15	7.96	K, J	640	0.43	1200
SWI0603HTR56□□□	0.56	15	7.96	K, J	630	0.44	1200
SWI0603HTR68□□□	0.68	15	7.96	K, J	510	0.52	1000
SWI0603HTR78□□□	0.78	15	7.96	K, J	465	0.63	990
SWI0603HTR82□□□	0.82	15	7.96	K, J	460	0.69	990
SWI0603HT1R0□□□	1.0	15	7.96	K, J	320	0.81	850
SWI0603HT1R2□□□	1.2	15	7.96	K, J	270	0.87	850
SWI0603HT1R5□□□	1.5	15	7.96	K, J	230	0.96	830
SWI0603HT1R8□□□	1.8	15	7.96	K, J	210	1.10	820
SWI0603HT2R2□□□	2.2	15	7.96	K, J	115	1.20	720
SWI0603HT2R7□□□	2.7	15	7.96	K, J	100	1.38	700
SWI0603HT3R3□□□	3.3	15	7.96	K, J	84	1.50	640
SWI0603HT3R9□□□	3.9	15	7.96	K, J	75	1.50	630
SWI0603HT4R7□□□	4.7	15	7.96	K, J	67	2.10	530
SWI0603HT5R6□□□	5.6	15	7.96	K, J	55	2.37	510
SWI0603HT6R8□□□	6.8	15	7.96	K, J	48	3.10	490
SWI0603HT7R8□□□	7.8	15	7.96	K, J	40	3.35	420
SWI0603HT8R2□□□	8.2	15	7.96	K, J	38	3.50	450
SWI0603HT100□□□	10	15	7.96	K, J	32	4.46	370
SWI0603HT150□□□	15	14	7.96	K, J	25	9.50	240

- \* 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 Ceramic Type/Standard

Part No.	Inductance			Tol. (%)	Q value		S.R.F.(min) (MHz)	RDC(max) (Ω)	IDC(max) (mA)
	(nH)				Min	Test Freq.			
SWI0805CT2N2□□□	2.2	@	250 MHz	K, J	35	1500 MHz	3000	0.08	600
SWI0805CT2N7□□□	2.7	@	250 MHz	K, J	80	1500 MHz	7900	0.06	800
SWI0805CT3N0□□□	3.0	@	250 MHz	K, J	65	1500 MHz	7900	0.06	800
SWI0805CT3N3□□□	3.3	@	250 MHz	K, J	50	1500 MHz	6000	0.08	600
SWI0805CT5N6□□□	5.6	@	250 MHz	K, J	65	1000 MHz	5500	0.08	600
SWI0805CT6N2□□□	6.2	@	250 MHz	K, J	50	1000 MHz	5500	0.11	600
SWI0805CT6N8□□□	6.8	@	250 MHz	K, J	50	1000 MHz	5500	0.11	600
SWI0805CT7N5□□□	7.5	@	250 MHz	K, J	50	1000 MHz	4500	0.14	600
SWI0805CT8N2□□□	8.2	@	250 MHz	K, J	50	1000 MHz	4700	0.12	600
SWI0805CT10N□□□	10	@	250 MHz	K, J, G	60	500 MHz	4200	0.10	600
SWI0805CT12N□□□	12	@	250 MHz	K, J, G	50	500 MHz	4000	0.15	600
SWI0805CT15N□□□	15	@	250 MHz	K, J, G	50	500 MHz	3400	0.17	600
SWI0805CT18N□□□	18	@	250 MHz	K, J, G	50	500 MHz	3300	0.20	600
SWI0805CT22N□□□	22	@	250 MHz	K, J, G	55	500 MHz	2600	0.22	500
SWI0805CT24N□□□	24	@	250 MHz	K, J, G	50	500 MHz	2000	0.22	500
SWI0805CT27N□□□	27	@	250 MHz	K, J, G	55	500 MHz	2500	0.25	500
SWI0805CT33N□□□	33	@	250 MHz	K, J, G	60	500 MHz	2050	0.27	500
SWI0805CT36N□□□	36	@	250 MHz	K, J, G	55	500 MHz	1700	0.27	500
SWI0805CT39N□□□	39	@	250 MHz	K, J, G	60	500 MHz	2000	0.29	500
SWI0805CT43N□□□	43	@	200 MHz	K, J, G	60	500 MHz	1650	0.34	500
SWI0805CT47N□□□	47	@	200 MHz	K, J, G	60	500 MHz	1650	0.31	500
SWI0805CT56N□□□	56	@	200 MHz	K, J, G	60	500 MHz	1550	0.34	500
SWI0805CT68N□□□	68	@	200 MHz	K, J, G	60	500 MHz	1450	0.38	500
SWI0805CT72N□□□	72	@	150 MHz	K, J, G	65	500 MHz	1400	0.40	500
SWI0805CT82N□□□	82	@	150 MHz	K, J, G	65	500 MHz	1300	0.42	400
SWI0805CT91N□□□	91	@	150 MHz	K, J, G	65	500 MHz	1200	0.48	400
SWI0805CTR10□□□	100	@	150 MHz	K, J, G	65	500 MHz	1200	0.46	400
SWI0805CTR11□□□	110	@	150 MHz	K, J, G	50	250 MHz	1000	0.48	400
SWI0805CTR12□□□	120	@	150 MHz	K, J, G	50	250 MHz	1100	0.51	400
SWI0805CTR15□□□	150	@	100 MHz	K, J, G	50	250 MHz	920	0.56	400
SWI0805CTR18□□□	180	@	100 MHz	K, J, G	50	250 MHz	870	0.64	400
SWI0805CTR20□□□	200	@	100 MHz	K, J, G	50	250 MHz	860	0.66	400
SWI0805CTR22□□□	220	@	100 MHz	K, J, G	50	250 MHz	850	0.70	400
SWI0805CTR24□□□	240	@	100 MHz	K, J, G	44	250 MHz	690	1.00	350
SWI0805CTR27□□□	270	@	100 MHz	K, J, G	48	250 MHz	650	1.00	350
SWI0805CTR30□□□	300	@	100 MHz	K, J, G	48	250 MHz	620	1.20	330
SWI0805CTR33□□□	330	@	100 MHz	K, J, G	48	250 MHz	600	1.40	310
SWI0805CTR36□□□	360	@	100 MHz	K, J, G	48	250 MHz	580	1.45	300
SWI0805CTR39□□□	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)
SWI0805CTR43□□□	430	@	50 MHz	K, J, G	33	100 MHz	430	1.70	230
SWI0805CTR47□□□	470	@	50 MHz	K, J, G	33	100 MHz	375	1.70	250
SWI0805CTR56□□□	560	@	25 MHz	K, J, G	23	50 MHz	340	1.90	230
SWI0805CTR62□□□	620	@	25 MHz	K, J, G	23	50 MHz	220	2.20	210
SWI0805CTR68□□□	680	@	25 MHz	K, J, G	23	50 MHz	200	2.20	190
SWI0805CTR75□□□	820	@	25 MHz	K, J, G	23	50 MHz	200	2.30	180
SWI0805CTR82□□□	820	@	25 MHz	K, J, G	23	50 MHz	200	2.35	180
SWI0805CT1R0□□□	1000	@	25 MHz	K, J, G	20	50 MHz	100	2.50	170
SWI0805CT1R2□□□	1200	@	7.9 MHz	K, J, G	18	25 MHz	100	2.50	170
SWI0805CT1R5□□□	1500	@	7.9 MHz	K, J, G	16	25 MHz	100	2.50	170
SWI0805CT1R8□□□	1800	@	7.9 MHz	K, J, G	16	7.9 MHz	80	2.50	170
SWI0805CT2R2□□□	2200	@	7.9 MHz	K, J, G	16	7.9 MHz	60	2.70	160
SWI0805CT2R7□□□	2700	@	7.9 MHz	K, J, G	16	7.9 MHz	50	3.10	150
SWI0805CT3R3□□□	3300	@	7.9 MHz	K, J, G	15	7.9 MHz	40	4.40	90
SWI0805CT4R7□□□	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) (MHz)	RDC(max) (Ω)	IDC(max) (mA)
		@	250 MHz		Min	Test Freq.			
SWI0805HT2N5□□□	2.5	@	250 MHz	K, J	80	1500 MHz	6000	0.020	1600
SWI0805HT5N6□□□	5.6	@	250 MHz	K, J	98	1500 MHz	6000	0.035	1600
SWI0805HT6N2□□□	6.2	@	250 MHz	K, J	88	1000 MHz	4750	0.035	1600
SWI0805HT6N8□□□	6.8	@	250 MHz	K, J	80	1000 MHz	4400	0.035	1600
SWI0805HT8N2□□□	8.2	@	250 MHz	K, J	75	1000 MHz	3000	0.075	1000
SWI0805HT10N□□□	10	@	250 MHz	K, J	80	1000 MHz	3000	0.060	1600
SWI0805HT12N□□□	12	@	250 MHz	K, J	80	1000 MHz	3000	0.045	1600
SWI0805HT15N□□□	15	@	250 MHz	K, J, G	80	1000 MHz	2800	0.100	1200
SWI0805HT16N□□□	16	@	250 MHz	K, J, G	72	500 MHz	2950	0.060	1500
SWI0805HT18N□□□	18	@	250 MHz	K, J, G	75	500 MHz	2550	0.060	1400
SWI0805HT20N□□□	20	@	250 MHz	K, J, G	70	500 MHz	2050	0.055	1400
SWI0805HT22N□□□	22	@	250 MHz	K, J, G	80	500 MHz	2000	0.100	1200
SWI0805HT27N□□□	27	@	250 MHz	K, J, G	75	500 MHz	2000	0.070	1300
SWI0805HT30N□□□	30	@	250 MHz	K, J, G	65	500 MHz	1950	0.095	1200
SWI0805HT39N□□□	39	@	250 MHz	K, J, G	65	500 MHz	1600	0.110	1100
SWI0805HT48N□□□	48	@	200 MHz	K, J, G	65	500 MHz	1400	0.095	1200
SWI0805HT51N□□□	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)
	( uH )	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI0805FTR10□□□	0.10	20	25	K, J	1400	0.10	1700
SWI0805FTR12□□□	0.12	25	25	K, J	1000	0.18	1500
SWI0805FTR15□□□	0.15	25	25	K, J	1000	0.18	1400
SWI0805FTR18□□□	0.18	30	25	K, J	1000	0.20	1400
SWI0805FTR22□□□	0.22	30	25	K, J	830	0.25	1350
SWI0805FTR27□□□	0.27	30	25	K, J	800	0.38	1300
SWI0805FTR33□□□	0.33	30	25	K, J	750	0.35	1200
SWI0805FTR39□□□	0.39	30	25	K, J	700	0.35	1160
SWI0805FTR47□□□	0.47	30	25	K, J	690	0.40	1100
SWI0805FTR56□□□	0.56	30	25	K, J	640	0.40	1040
SWI0805FTR68□□□	0.68	30	25	K, J	510	0.50	900
SWI0805FTR82□□□	0.82	30	25	K, J	500	0.50	900
SWI0805FT1R0□□□	1.0	30	25	K, J	500	0.50	900
SWI0805FT1R2□□□	1.2	20	7.9	K, J	470	0.50	840
SWI0805FT1R5□□□	1.5	20	7.9	K, J	400	0.75	800
SWI0805FT1R8□□□	1.8	25	7.9	K, J	400	1.00	720
SWI0805FT2R2□□□	2.2	25	7.9	K, J	230	1.00	660
SWI0805FT2R7□□□	2.7	25	7.9	K, J	200	1.05	600
SWI0805FT3R3□□□	3.3	25	7.9	K, J	130	1.18	500
SWI0805FT3R9□□□	3.9	25	7.9	K, J	160	1.26	480
SWI0805FT4R7□□□	4.7	25	7.9	K, J	130	1.75	440
SWI0805FT5R6□□□	5.6	25	7.9	K, J	120	1.87	390
SWI0805FT6R8□□□	6.8	25	7.9	K, J	90	2.00	340
SWI0805FT8R2□□□	8.2	25	7.9	K, J	55	2.15	300
SWI0805FT100□□□	10.0	25	7.9	K, J	40	2.37	280
SWI0805FT120□□□	12.0	16	2.5	K, J	40	2.55	260
SWI0805FT150□□□	15.0	16	2.5	K, J	37	2.80	220
SWI0805FT180□□□	18.0	16	2.5	K, J	30	3.80	200
SWI0805FT220□□□	22.0	16	2.5	K, J	23	4.48	180
SWI0805FT270□□□	27.0	16	2.5	K, J	20	6.30	160
SWI0805FT330□□□	33.0	16	2.5	K, J	19	6.85	140
SWI0805FT390□□□	39.0	16	2.5	K, J	18	7.60	120
SWI0805FT470□□□	47.0	15	2.5	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)
SWI0805HTR10□□□	0.1	9	7.96	K, M	1700	0.091	2400
SWI0805HTR15□□□	0.15	12	7.96	K, M	1500	0.104	1900
SWI0805HTR22□□□	0.22	12	7.96	K, M	1500	0.130	1700
SWI0805HTR33□□□	0.33	12	7.96	K, M	900	0.156	1400
SWI0805HTR47□□□	0.47	14	7.96	K, M	850	0.156	1400
SWI0805HTR68□□□	0.68	14	7.96	K, M	290	0.195	1200
SWI0805HT1R0□□□	1.0	14	7.96	K, M	208	0.169	1100
SWI0805HT1R2□□□	1.2	14	7.96	K, M	159	0.208	960
SWI0805HT1R5□□□	1.5	14	7.96	K, M	159	0.221	920
SWI0805HT1R8□□□	1.8	14	7.96	K, M	112	0.260	860
SWI0805HT2R2□□□	2.2	13	7.96	K, M	87	0.286	740
SWI0805HT2R7□□□	2.7	13	7.96	K, M	72	0.325	680
SWI0805HT3R3□□□	3.3	12	7.96	K, M	70	0.364	620
SWI0805HT3R9□□□	3.9	14	7.96	K, M	61	0.494	580
SWI0805HT4R7□□□	4.7	14	7.96	K, M	51	0.559	520
SWI0805HT5R6□□□	5.6	12	7.96	K, M	47	0.650	480
SWI0805HT6R8□□□	6.8	14	7.96	K, M	46	0.884	420
SWI0805HT8R2□□□	8.2	13	7.96	K, M	33	0.949	400
SWI0805HT100□□□	10	14	2.52	J, K, M	31	1.105	360
SWI0805HT120□□□	12	14	2.52	J, K, M	30	1.17	340
SWI0805HT150□□□	15	15	2.52	J, K, M	28	1.82	300
SWI0805HT180□□□	18	15	2.52	J, K, M	27	2.01	280
SWI0805HT220□□□	22	15	2.52	J, K, M	20	2.28	240
SWI0805HT270□□□	27	15	2.52	J, K, M	17	2.60	220
SWI0805HT330□□□	33	15	2.52	J, K, M	17	3.05	200
SWI0805HT470□□□	47	14	2.52	J, K, M	15	4.42	160
SWI0805HT560□□□	56	14	2.52	J, K, M	10	5.74	150
SWI0805HT680□□□	68	14	2.52	J, K, M	10	5.78	140
SWI0805HT820□□□	82	14	2.52	J, K, M	10	9.75	100
SWI0805HT101□□□	100	10	1.00	J, K, M	9	9.75	100
SWI0805HT221□□□	220	8	1.00	J, K, M	4	30.0	70

- \* 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 1008 Ceramic Type

Part No.	Inductance			Tol.	Q value		S.R.F.(min)	RDC(max)	IDC(max)
	(nH)	@	50 MHZ	(%)	Min	Test Freq.	(Mhz)	(OHM)	(mA)
SWI1008CT4N7□□□	4.7	@	50 MHZ	K, J	50	1500 MHZ	4000	0.15	1000
SWI1008CT5N6□□□	5.6	@	50 MHZ	K, J	50	1500 MHZ	4000	0.15	1000
SWI1008CT10N□□□	10	@	50 MHZ	K, J, G	50	500 MHZ	4100	0.08	1000
SWI1008CT12N□□□	12	@	50 MHZ	K, J, G	50	500 MHZ	3300	0.09	1000
SWI1008CT15N□□□	15	@	50 MHZ	K, J, G	50	500 MHZ	2500	0.11	1000
SWI1008CT18N□□□	18	@	50 MHZ	K, J, G	50	350 MHZ	2400	0.12	1000
SWI1008CT22N□□□	22	@	50 MHZ	K, J, G	55	350 MHZ	2400	0.12	1000
SWI1008CT24N□□□	24	@	50 MHZ	K, J, G	55	350 MHZ	1900	0.13	1000
SWI1008CT27N□□□	27	@	50 MHZ	K, J, G	55	350 MHZ	1600	0.13	1000
SWI1008CT33N□□□	33	@	50 MHZ	K, J, G	60	350 MHZ	1600	0.14	1000
SWI1008CT39N□□□	39	@	50 MHZ	K, J, G	60	350 MHZ	1500	0.15	1000
SWI1008CT47N□□□	47	@	50 MHZ	K, J, G	65	350 MHZ	1500	0.16	1000
SWI1008CT56N□□□	56	@	50 MHZ	K, J, G	65	350 MHZ	1300	0.18	1000
SWI1008CT68N□□□	68	@	50 MHZ	K, J, G	65	350 MHZ	1300	0.20	1000
SWI1008CT82N□□□	82	@	50 MHZ	K, J, G	60	350 MHZ	1000	0.22	1000
SWI1008CTR10□□□	100	@	25 MHZ	K, J, G	60	350 MHZ	1000	0.56	650
SWI1008CTR12□□□	120	@	25 MHZ	K, J, G	60	350 MHZ	950	0.63	650
SWI1008CTR15□□□	150	@	25 MHZ	K, J, G	45	100 MHZ	850	0.70	800
SWI1008CTR18□□□	180	@	25 MHZ	K, J, G	45	100 MHZ	750	0.77	620
SWI1008CTR20□□□	200	@	25 MHZ	K, J, G	45	100 MHZ	700	0.81	500
SWI1008CTR22□□□	220	@	25 MHZ	K, J, G	45	100 MHZ	700	0.84	500
SWI1008CTR24□□□	240	@	25 MHZ	K, J, G	50	100 MHZ	650	0.88	500
SWI1008CTR27□□□	270	@	25 MHZ	K, J, G	45	100 MHZ	600	0.91	690
SWI1008CTR30□□□	300	@	25 MHZ	K, J, G	40	100 MHZ	585	1.00	450
SWI1008CTR33□□□	330	@	25 MHZ	K, J, G	45	100 MHZ	570	1.05	450
SWI1008CTR36□□□	360	@	25 MHZ	K, J, G	45	100 MHZ	530	1.10	470
SWI1008CTR39□□□	390	@	25 MHZ	K, J, G	45	100 MHZ	500	1.12	630
SWI1008CTR43□□□	430	@	25 MHZ	K, J, G	45	100 MHZ	480	1.15	470
SWI1008CTR47□□□	470	@	25 MHZ	K, J, G	45	100 MHZ	450	1.19	470
SWI1008CTR56□□□	560	@	25 MHZ	K, J, G	45	100 MHZ	415	1.33	580
SWI1008CTR62□□□	620	@	25 MHZ	K, J, G	45	100 MHZ	375	1.40	300
SWI1008CTR68□□□	680	@	25 MHZ	K, J, G	45	100 MHZ	375	1.47	540
SWI1008CTR75□□□	750	@	25 MHZ	K, J, G	45	100 MHZ	360	1.54	360
SWI1008CTR82□□□	820	@	25 MHZ	K, J, G	45	100 MHZ	350	1.61	400
SWI1008CTR91□□□	910	@	25 MHZ	K, J, G	35	50 MHZ	320	1.68	380
SWI1008CT1R0□□□	1000	@	25 MHZ	K, J, G	35	50 MHZ	290	1.75	370
SWI1008CT1R2□□□	1200	@	7.9 MHZ	K, J, G	35	50 MHZ	250	2.00	310
SWI1008CT1R5□□□	1500	@	7.9 MHZ	K, J, G	28	50 MHZ	200	2.30	330
SWI1008CT1R8□□□	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)
SWI1008CT2R2□□□	2200	@	7.9 MHZ	K, J, G	28	50 MHZ	160	2.80	280
SWI1008CT2R7□□□	2700	@	7.9 MHZ	K, J, G	22	25 MHZ	140	3.20	290
SWI1008CT3R3□□□	3300	@	7.9 MHZ	K, J, G	22	25 MHZ	110	3.40	290
SWI1008CT3R9□□□	3900	@	7.9 MHZ	K, J, G	18	25 MHZ	100	3.60	260
SWI1008CT4R7□□□	4700	@	7.9 MHZ	K, J, G	18	25 MHZ	90	4.00	260
SWI1008CT5R6□□□	5600	@	7.9 MHZ	K, J, G	16	7.96 MHZ	20	4.00	240
SWI1008CT6R8□□□	6800	@	7.9 MHZ	K, J, G	15	7.96 MHZ	40	4.90	200
SWI1008CT8R2□□□	8200	@	7.9 MHZ	K, J, G	15	7.96 MHZ	25	6.00	170
SWI1008CT100□□□	10000	@	2.52 MHZ	K, J, G	15	7.96 MHZ	20	9.00	150
SWI1008CT120□□□	12000	@	2.52 MHZ	K, J, G	15	7.96 MHZ	18	10.50	130
SWI1008CT150□□□	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)
SWI1008FTR10□□□	0.10	25	25.2	K, J	930	0.20	1300
SWI1008FTR12□□□	0.12	26	25.2	K, J	930	0.30	1000
SWI1008FTR15□□□	0.15	26	25.2	K, J	930	0.30	960
SWI1008FTR18□□□	0.18	30	25.2	K, J	930	0.30	960
SWI1008FTR22□□□	0.22	27	25.2	K, J	750	0.40	880
SWI1008FTR27□□□	0.27	29	25.2	K, J	700	0.42	900
SWI1008FTR33□□□	0.33	30	25.2	K, J	600	0.42	900
SWI1008FTR39□□□	0.39	30	25.2	K, J	480	0.45	920
SWI1008FTR47□□□	0.47	30	25.2	K, J	470	0.50	920
SWI1008FTR56□□□	0.56	30	25.2	K, J	460	0.55	900
SWI1008FTR68□□□	0.68	30	25.2	K, J	420	0.55	880
SWI1008FTR82□□□	0.82	30	25.2	K, J	420	0.65	880
SWI1008FT1R0□□□	1.0	25	7.96	K, J	380	0.65	840
SWI1008FT1R2□□□	1.2	25	7.96	K, J	300	0.60	800
SWI1008FT1R5□□□	1.5	25	7.96	K, J	280	0.74	800
SWI1008FT1R8□□□	1.8	25	7.96	K, J	245	0.85	780
SWI1008FT2R2□□□	2.2	25	7.96	K, J	240	0.92	780
SWI1008FT2R7□□□	2.7	25	7.96	K, J	205	1.10	760
SWI1008FT3R3□□□	3.3	25	7.96	K, J	187	1.22	760
SWI1008FT3R9□□□	3.9	25	7.96	K, J	165	1.37	740
SWI1008FT4R7□□□	4.7	25	7.96	K, J	144	1.66	700
SWI1008FT5R6□□□	5.6	25	7.96	K, J	110	1.68	660
SWI1008FT6R8□□□	6.8	25	7.96	K, J	88	1.75	640
SWI1008FT8R2□□□	8.2	25	7.96	K, J	70	1.85	640
SWI1008FT100□□□	10	20	7.96	K, J	57	2.00	600
SWI1008FT120□□□	12	15	2.52	K, J	55	2.32	600
SWI1008FT150□□□	15	15	2.52	K, J	52	2.99	560
SWI1008FT180□□□	18	15	2.52	K, J	49	3.42	480
SWI1008FT220□□□	22	15	2.52	K, J	48	4.65	420
SWI1008FT270□□□	27	15	2.52	K, J	25	5.12	420
SWI1008FT330□□□	33	15	2.52	K, J	23	5.76	420
SWI1008FT390□□□	39	15	2.52	K, J	17	6.44	400
SWI1008FT470□□□	47	14	2.52	K, J	15	6.85	380
SWI1008FT560□□□	56	14	2.52	K, J	13	9.94	260
SWI1008FT680□□□	68	14	2.52	K, J	10	10.7	280
SWI1008FT820□□□	82	14	2.52	K, J	8	12.8	260
SWI1008FT101□□□	100	8	1.00	K, J	8	18.3	240

- \* 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

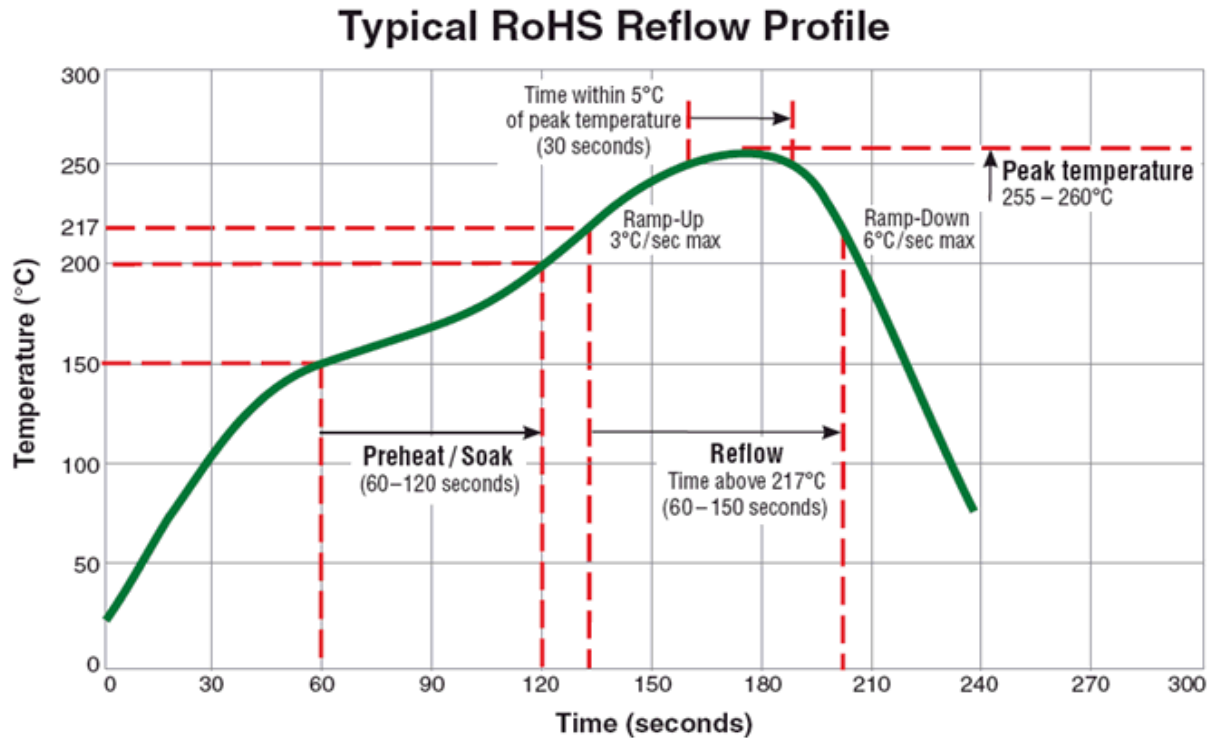
## Size 1008 Ferrite Type/High Current

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	( $\mu$ H)	(min)	(MHz)	(%)	(MHz)	( $\Omega$ )	(mA)
SWI1008HTR10□□□	0.10	35	25.2	K, J	1500	0.05	3200
SWI1008HTR22□□□	0.22	35	25.2	K, J	800	0.15	2900
SWI1008HTR39□□□	0.39	35	25.2	K, J	460	0.20	2100
SWI1008HTR47□□□	0.47	35	25.2	K, J	460	0.20	2100
SWI1008HTR56□□□	0.56	35	25.2	K, J	360	0.26	1800
SWI1008HTR68□□□	0.68	35	25.2	K, J	400	0.30	1700
SWI1008HTR82□□□	0.82	35	25.2	K, J	360	0.35	1400
SWI1008HT1R0□□□	1.0	32	7.96	K, J	340	0.34	1700
SWI1008HT1R2□□□	1.2	25	7.96	K, J	300	0.25	1600
SWI1008HT1R5□□□	1.5	32	7.96	K, J	230	0.42	1200
SWI1008HT1R8□□□	1.8	27	7.96	K, J	180	0.45	1100
SWI1008HT2R2□□□	2.2	27	7.96	K, J	140	0.50	1100
SWI1008HT2R7□□□	2.7	27	7.96	K, J	130	0.55	1000
SWI1008HT3R3□□□	3.3	27	7.96	K, J	125	0.60	1000
SWI1008HT3R9□□□	3.9	27	7.96	K, J	100	0.80	990
SWI1008HT4R7□□□	4.7	30	7.96	K, J	90	0.90	880
SWI1008HT5R6□□□	5.6	27	7.96	K, J	60	1.00	850
SWI1008HT6R8□□□	6.8	27	7.96	K, J	60	1.05	840
SWI1008HT8R2□□□	8.2	25	7.96	K, J	55	1.20	810
SWI1008HT100□□□	10	23	2.52	K, J	55	1.55	700
SWI1008HT120□□□	12	23	2.52	K, J	36	2.10	580
SWI1008HT150□□□	15	23	2.52	K, J	36	2.38	580
SWI1008HT180□□□	18	23	2.52	K, J	32	2.50	520
SWI1008HT220□□□	22	23	2.52	K, J	29	2.92	500
SWI1008HT270□□□	27	23	2.52	K, J	22	3.70	450
SWI1008HT330□□□	33	23	2.52	K, J	21	4.10	420
SWI1008HT390□□□	39	18	2.52	K, J	15	5.50	340
SWI1008HT470□□□	47	23	2.52	K, J	17	7.80	310
SWI1008HT680□□□	68	20	2.52	K, J	9	11.5	220
SWI1008HT101□□□	100	13	1.00	K, J	4	13.2	210
SWI1008HT101□□□	150	13	1.00	K, J	3	22.5	170
SWI1008HT221□□□	220	13	1.00	K, J	3	26.5	160
SWI1008HT271□□□	270	13	1.00	K, J	2	32.0	135
SWI1008HT331□□□	330	13	1.00	K, J	2	32.5	130

- \* 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.

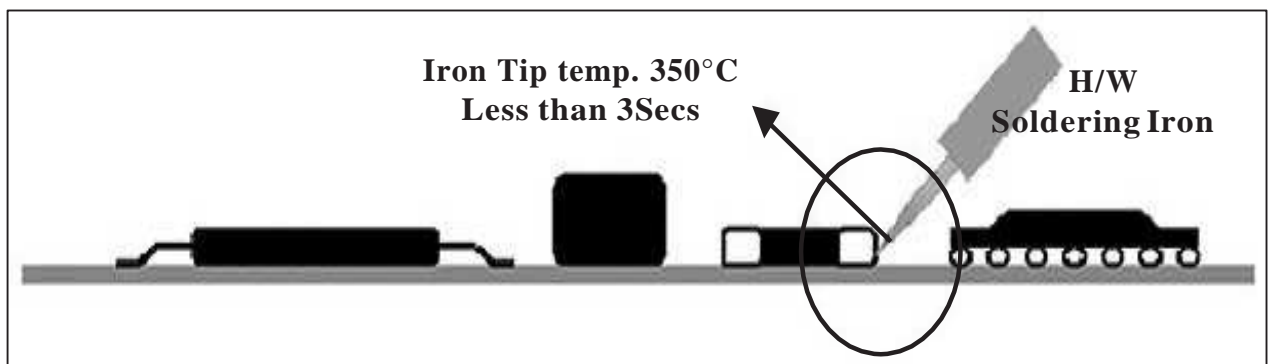
■ **Soldering Profile**

**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.	0402 series - 350g 0603 series - 1.0Kg Other series - 0805 ~ 1210 Minimum 1Kg for Pd/Ag termination and 2Kg for Mo/Mn termination.
	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.	Change In Inductance: No more than 5% Change In Q: No more than 10%
	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.	
	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.	
	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.	Inductors shall not have a shorted or open winding.
	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.	

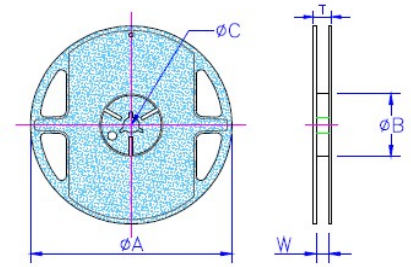
# WIRE WOUND CHIP INDUCTOR

# SWI SERIES

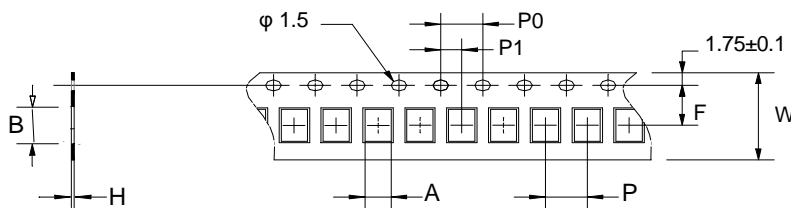
## ■ Packaging

### Packaging Quantity & Reel Specifications

Type	ΦA	ΦB	ΦC	W	T	Quantity (EA)
SWI0402	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	4000
SWI0603	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	CT: 4000
SWI0603	178±2.0	60±0.5	13±0.3	9±0.3	12±1.0	FT: 3000
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	2000



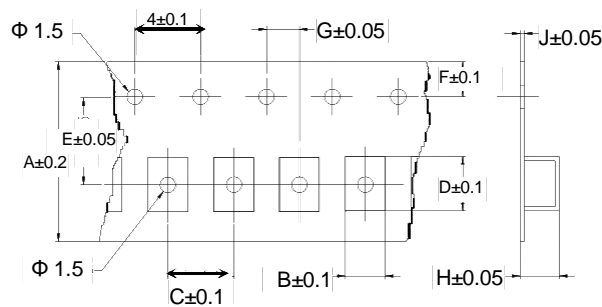
### Paper Tape Specifications



Unit: mm

Type	A	B	H	F	P	P0	P1	W	Quantity (EA)
SWI0402	0.81	1.23	0.73	3.50	2.00	4.00	2.00	8.00	4,000
SWI0603	1.35	1.95	0.95	3.50	4.00	4.00	2.00	8.00	4,000

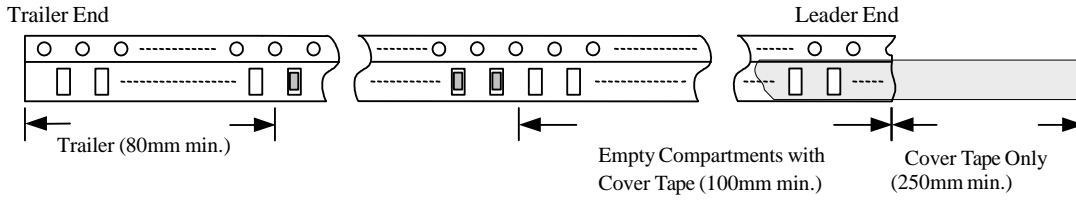
### Embossed Plastic Tape Specifications



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

**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

