

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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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.

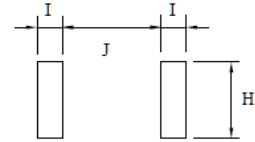
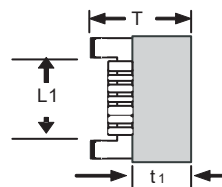
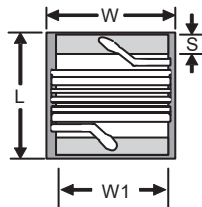
Ceramic type : For lower inductance with high Q factor at high frequency and stable circuit requirement.

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

SWI	0603	C	T	3N3	J	<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**

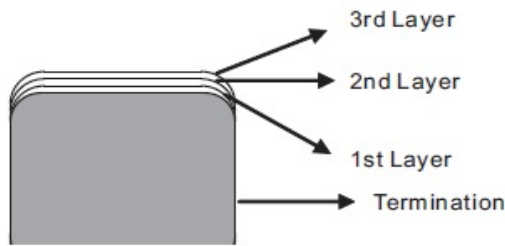
- * Please refer to the figure and table in previous pages.
- * Terminal: SWI series terminals shall consist of MoMn alloy or PdAg alloy followed by Nickel, then Au or solder plating for easier soldering.

■ **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:**



	Ceramic Type	Ferrite Type
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 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)
SWI 0402FT 18N□□□	18	10	100	K, J	2600	0.055	1600
SWI 0402FT 20N□□□	20	10	100	K, J	2600	0.050	1600
SWI 0402FT 22N□□□	22	10	100	K	2500	0.072	1300
SWI 0402FT 33N□□□	33	10	100	K, J	2300	0.060	1400
SWI 0402FT 36N□□□	36	10	100	K, J	2300	0.092	1000
SWI 0402FT 39N□□□	39	10	100	K, J	2200	0.150	830
SWI 0402FT 51N□□□	51	10	100	K	1930	0.070	1100
SWI 0402FT 56N□□□	56	10	100	K	1900	0.125	900
SWI 0402FT 72N□□□	72	10	100	K, J	1650	0.100	900
SWI 0402FT 78N□□□	78	10	100	K, J	1600	0.190	850
SWI 0402FT R10□□□	100	9	100	K	1400	0.160	900
SWI 0402FT R14□□□	140	11	50	K, J	1220	0.260	540
SWI 0402FT R18□□□	180	11	50	K	1150	0.330	560
SWI 0402FT R20□□□	200	11	50	K, J	1000	0.440	400
SWI 0402FT R22□□□	220	11	50	K, J	1150	0.530	380
SWI 0402FT R25□□□	250	11	25	K, J	900	0.360	520
SWI 0402FT R27□□□	270	11	25	K	860	0.550	360
SWI 0402FT R30□□□	300	11	25	K, J	860	0.410	420
SWI 0402FT R33□□□	330	11	7.9	K, J	820	0.680	350
SWI 0402FT R36□□□	360	11	7.9	K, J	810	0.575	360
SWI 0402FT R39□□□	360	11	7.9	K, J	760	0.890	300
SWI 0402FT R42□□□	420	11	7.9	K, J	700	1.100	340
SWI 0402FT R47□□□	470	11	7.9	K	650	0.730	310
SWI 0402FT R56□□□	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	(Ω)max	(mA)max
SWI 0603 CT 1N8 □□□	1.8	16	250	K, J	1.63	35	1.66	50	12.5	0.045	700
SWI 0603 CT 2N2 □□□	2.2	15	250	K, J	2.18	41	2.20	64	5.80	0.100	700
SWI 0603 CT 3N3 □□□	3.3	22	250	K, J, G	3.35	47	3.40	65	>6	0.080	700
SWI 0603 CT 3N9 □□□	3.9	22	250	K, J, G	3.95	49	3.96	67	>6	0.080	700
SWI 0603 CT 4N7 □□□	4.7	25	250	K, J, G	4.65	53	4.80	67	5.80	0.120	700
SWI 0603 CT 6N8 □□□	6.8	27	250	K, J, G	6.75	60	7.10	81	5.80	0.110	700
SWI 0603 CT 8N2 □□□	8.2	27	250	K, J, G	8.25	64	8.40	81	4.80	0.110	700
SWI 0603 CT 10N □□□	10	31	250	K, J, G	10.0	66	10.6	83	4.80	0.130	700
SWI 0603 CT 12N □□□	12	35	250	K, J, G	12.3	72	13.5	83	4.00	0.130	700
SWI 0603 CT 15N □□□	15	35	250	K, J, G	15.4	64	16.8	89	4.00	0.170	700
SWI 0603 CT 18N □□□	18	35	250	K, J, G	18.7	70	21.4	69	3.10	0.170	700
SWI 0603 CT 22N □□□	22	38	250	K, J, G	22.8	73	26.1	71	3.00	0.190	700
SWI 0603 CT 24N □□□	24	38	250	K, J, G	25.7	45	30.9	40	2.80	0.130	700
SWI 0603 CT 27N □□□	27	40	250	K, J, G	29.2	74	34.6	65	2.80	0.220	600
SWI 0603 CT 33N □□□	33	40	250	K, J, G	36.0	67	49.5	42	2.30	0.220	600
SWI 0603 CT 39N □□□	39	40	250	K, J, G	42.7	60	60.2	40	2.20	0.250	600
SWI 0603 CT 47N □□□	47	38	200	K, J, G	52.2	62	77.2	35	2.00	0.280	600
SWI 0603 CT 56N □□□	56	38	200	K, J, G	62.5	56	97.0	26	1.90	0.310	600
SWI 0603 CT 68N □□□	68	37	200	K, J, G	80.5	54	168	21	1.70	0.340	600
SWI 0603 CT 72N □□□	72	34	150	K, J, G	82.0	53	135	20	1.70	0.490	400
SWI 0603 CT 82N □□□	82	34	150	K, J, G	96.2	54	177	21	1.70	0.540	400
SWI 0603 CTR10 □□□	100	34	150	K, J, G	124	49	319.5	13	1.40	0.580	400
SWI 0603 CTR12 □□□	120	32	150	K, J, G	166	39	529.3	8	1.30	0.650	300
SWI 0603 CTR15 □□□	150	28	100	K, J, G	230	25	-	-	1.30	0.950	280
SWI 0603 CTR18 □□□	180	25	100	K, J, G	305	22	-	-	1.25	1.400	250
SWI 0603 CTR22 □□□	220	25	100	K, J, G	377	21	-	-	1.20	1.600	250
SWI 0603 CTR27 □□□	270	25	100	K, J, G	523	19	-	-	0.90	2.100	200
SWI 0603 CTR33 □□□	330	25	100	K, J, G	680.4	20	-	-	0.90	3.800	100
SWI 0603 CTR39 □□□	390	25	100	K, J, G	734.5	29	-	-	0.90	4.350	100
SWI 0603 CTR47 □□□	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)	(Ω)	(mA)
SWI 0603HT 1N6□□□	1.6	24	K, J	12.5	0.030	2400
SWI 0603HT 3N6□□□	3.6	24	K, J	5.90	0.048	2300
SWI 0603HT 3N9□□□	3.9	25	K, J	5.90	0.054	2200
SWI 0603HT 6N8□□□	6.8	35	K, J	5.80	0.054	2100
SWI 0603HT 7N5□□□	7.5	38	K, J	3.70	0.059	2100
SWI 0603HT 8N2□□□	8.2	38	K, J	3.70	0.060	2000
SWI 0603HT 10N□□□	10	38	K, J, G	3.70	0.071	2000
SWI 0603HT 12N□□□	12	38	K, J, G	3.00	0.075	2000
SWI 0603HT 15N□□□	15	38	K, J, G	2.80	0.080	1900
SWI 0603HT 18N□□□	18	40	K, J, G	2.80	0.099	1900
SWI 0603HT 22N□□□	22	42	K, J, G	2.40	0.099	1800
SWI 0603HT 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 R27□□□	0.27	13	7.9	K	900	0.338	950
SWI 0603 FT R47□□□	0.47	15	7.9	K	900	0.338	920
SWI 0603 FT R68□□□	0.68	13	7.9	K	650	0.351	920
SWI 0603 FT R78□□□	0.78	16	7.9	K	410	0.364	920
SWI 0603 FT 1R0□□□	1.0	16	7.9	K	390	0.416	860
SWI 0603 FT 1R5□□□	1.5	16	7.9	K	160	0.520	720
SWI 0603 FT 1R8□□□	1.8	16	7.9	K	121	0.559	640
SWI 0603 FT 2R2□□□	2.2	16	7.9	K	103	0.728	600
SWI 0603 FT 2R7□□□	2.7	16	7.9	K	72	0.806	540
SWI 0603 FT 3R3□□□	3.3	16	7.9	K	66	0.910	500
SWI 0603 FT 3R9□□□	3.9	16	7.9	K	61	1.079	460
SWI 0603 FT 4R7□□□	4.7	16	7.9	K	51	1.261	400
SWI 0603 FT 5R6□□□	5.6	16	7.9	K	47	1.430	380
SWI 0603 FT 6R8□□□	6.8	16	7.9	K	43	1.950	340
SWI 0603 FT 8R2□□□	8.2	16	7.9	K	40	2.184	300
SWI 0603 FT 10□□□	10	14	2.5	K	36	2.405	280
SWI 0603 FT 12□□□	12	14	2.5	K	32	2.964	260
SWI 0603 FT 15□□□	15	14	2.5	K	29	3.380	240
SWI 0603 FT 18□□□	18	14	2.5	K	28	3.770	220
SWI 0603 FT 22□□□	22	14	2.5	K	24	4.693	200
SWI 0603 FT 27□□□	27	14	2.5	K	20	6.760	140
SWI 0603 FT 33□□□	33	14	2.5	K	15	8.580	120
SWI 0603 FT 47□□□	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)
	(μ H)	(min)	(MHz)	(%)	(MHz)	(Ω)	(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	0.095	2200
SWI 0603 HT 68N□□□	0.068	12	7.96	K	1500	0.12	2200
SWI 0603 HT 72N□□□	0.072	12	7.96	K	1500	0.12	2200
SWI 0603 HT R10□□□	0.10	12	7.96	K, J	1150	0.13	2200
SWI 0603 HT R12□□□	0.12	12	7.96	K, J	1100	0.15	1900
SWI 0603 HT R15□□□	0.15	15	7.96	K, J	1050	0.15	1800
SWI 0603 HT R18□□□	0.18	15	7.96	K, J	950	0.15	1800
SWI 0603 HT R22□□□	0.22	15	7.96	K, J	900	0.30	1300
SWI 0603 HT R24□□□	0.24	15	7.96	K, J	850	0.16	1700
SWI 0603 HT R27□□□	0.27	15	7.96	K, J	835	0.30	1400
SWI 0603 HT R33□□□	0.33	15	7.96	K, J	725	0.40	1300
SWI 0603 HT R39□□□	0.39	15	7.96	K, J	680	0.41	1200
SWI 0603 HT R47□□□	0.47	15	7.96	K, J	640	0.43	1200
SWI 0603 HT R56□□□	0.56	15	7.96	K, J	630	0.44	1200
SWI 0603 HT R68□□□	0.68	15	7.96	K, J	510	0.52	1000
SWI 0603 HT R78□□□	0.78	15	7.96	K, J	465	0.63	990
SWI 0603 HT R82□□□	0.82	15	7.96	K, J	460	0.69	990
SWI 0603 HT 1R0□□□	1.0	15	7.96	K, J	320	0.81	850
SWI 0603 HT 1R2□□□	1.2	15	7.96	K, J	270	0.87	850
SWI 0603 HT 1R5□□□	1.5	15	7.96	K, J	230	0.96	830
SWI 0603 HT 1R8□□□	1.8	15	7.96	K, J	210	1.10	820
SWI 0603 HT 2R2□□□	2.2	15	7.96	K, J	115	1.20	720
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	640
SWI 0603 HT 3R9□□□	3.9	15	7.96	K, J	75	1.50	630
SWI 0603 HT 4R7□□□	4.7	15	7.96	K, J	67	2.10	530
SWI 0603 HT 5R6□□□	5.6	15	7.96	K, J	55	2.37	510
SWI 0603 HT 6R8□□□	6.8	15	7.96	K, J	48	3.10	490
SWI 0603 HT 7R8□□□	7.8	15	7.96	K, J	40	3.35	420
SWI 0603 HT 8R2□□□	8.2	15	7.96	K, J	38	3.50	450
SWI 0603 HT 10□□□	10	15	7.96	K, J	32	4.46	370
SWI 0603 HT 15□□□	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.			
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) (MHz)	RDC(max) (Ω)	IDC(max) (mA)	
	(nH)			Min	Test Freq.				
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)
	(uH)	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI 0805 FT R10 □□□	0.10	20	25	K, J	1400	0.10	1700
SWI 0805 FT R12 □□□	0.12	25	25	K, J	1000	0.18	1500
SWI 0805 FT R15 □□□	0.15	25	25	K, J	1000	0.18	1400
SWI 0805 FT R18 □□□	0.18	30	25	K, J	1000	0.20	1400
SWI 0805 FT R22 □□□	0.22	30	25	K, J	830	0.25	1350
SWI 0805 FT R27 □□□	0.27	30	25	K, J	800	0.38	1300
SWI 0805 FT R33 □□□	0.33	30	25	K, J	750	0.35	1200
SWI 0805 FT R39 □□□	0.39	30	25	K, J	700	0.35	1160
SWI 0805 FT R47 □□□	0.47	30	25	K, J	690	0.40	1100
SWI 0805 FT R56 □□□	0.56	30	25	K, J	640	0.40	1040
SWI 0805 FT R68 □□□	0.68	30	25	K, J	510	0.50	900
SWI 0805 FT R82 □□□	0.82	30	25	K, J	500	0.50	900
SWI 0805 FT 1R0 □□□	1.0	30	25	K, J	500	0.50	900
SWI 0805 FT 1R2 □□□	1.2	20	7.9	K, J	470	0.50	840
SWI 0805 FT 1R5 □□□	1.5	20	7.9	K, J	400	0.75	800
SWI 0805 FT 1R8 □□□	1.8	25	7.9	K, J	400	1.00	720
SWI 0805 FT 2R2 □□□	2.2	25	7.9	K, J	230	1.00	660
SWI 0805 FT 2R7 □□□	2.7	25	7.9	K, J	200	1.05	600
SWI 0805 FT 3R3 □□□	3.3	25	7.9	K, J	130	1.18	500
SWI 0805 FT 3R9 □□□	3.9	25	7.9	K, J	160	1.26	480
SWI 0805 FT 4R7 □□□	4.7	25	7.9	K, J	130	1.75	440
SWI 0805 FT 5R6 □□□	5.6	25	7.9	K, J	120	1.87	390
SWI 0805 FT 6R8 □□□	6.8	25	7.9	K, J	90	2.00	340
SWI 0805 FT 8R2 □□□	8.2	25	7.9	K, J	55	2.15	300
SWI 0805 FT 100 □□□	10.0	25	7.9	K, J	40	2.37	280
SWI 0805 FT 120 □□□	12.0	16	2.5	K, J	40	2.55	260
SWI 0805 FT 150 □□□	15.0	16	2.5	K, J	37	2.80	220
SWI 0805 FT 180 □□□	18.0	16	2.5	K, J	30	3.80	200
SWI 0805 FT 220 □□□	22.0	16	2.5	K, J	23	4.48	180
SWI 0805 FT 270 □□□	27.0	16	2.5	K, J	20	6.30	160
SWI 0805 FT 330 □□□	33.0	16	2.5	K, J	19	6.85	140
SWI 0805 FT 390 □□□	39.0	16	2.5	K, J	18	7.60	120
SWI 0805 FT 470 □□□	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)
	(μ H)	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI 0805 HT R10 □□□	0.1	9	7.96	K, M	1700	0.091	2400
SWI 0805 HT R15 □□□	0.15	12	7.96	K, M	1500	0.104	1900
SWI 0805 HT R22 □□□	0.22	12	7.96	K, M	1500	0.130	1700
SWI 0805 HT R33 □□□	0.33	12	7.96	K, M	900	0.156	1400
SWI 0805 HT R47 □□□	0.47	14	7.96	K, M	850	0.156	1400
SWI 0805 HT R68 □□□	0.68	14	7.96	K, M	290	0.195	1200
SWI 0805 HT 1R0 □□□	1.0	14	7.96	K, M	208	0.169	1100
SWI 0805 HT 1R2 □□□	1.2	14	7.96	K, M	159	0.208	960
SWI 0805 HT 1R5 □□□	1.5	14	7.96	K, M	159	0.221	920
SWI 0805 HT 1R8 □□□	1.8	14	7.96	K, M	112	0.260	860
SWI 0805 HT 2R2 □□□	2.2	13	7.96	K, M	87	0.286	740
SWI 0805 HT 2R7 □□□	2.7	13	7.96	K, M	72	0.325	680
SWI 0805 HT 3R3 □□□	3.3	12	7.96	K, M	70	0.364	620
SWI 0805 HT 3R9 □□□	3.9	14	7.96	K, M	61	0.494	580
SWI 0805 HT 4R7 □□□	4.7	14	7.96	K, M	51	0.559	520
SWI 0805 HT 5R6 □□□	5.6	12	7.96	K, M	47	0.650	480
SWI 0805 HT 6R8 □□□	6.8	14	7.96	K, M	46	0.884	420
SWI 0805 HT 8R2 □□□	8.2	13	7.96	K, M	33	0.949	400
SWI 0805 HT 100 □□□	10	14	2.52	J, K, M	31	1.105	360
SWI 0805 HT 120 □□□	12	14	2.52	J, K, M	30	1.17	340
SWI 0805 HT 150 □□□	15	15	2.52	J, K, M	28	1.82	300
SWI 0805 HT 180 □□□	18	15	2.52	J, K, M	27	2.01	280
SWI 0805 HT 220 □□□	22	15	2.52	J, K, M	20	2.28	240
SWI 0805 HT 270 □□□	27	15	2.52	J, K, M	17	2.60	220
SWI 0805 HT 330 □□□	33	15	2.52	J, K, M	17	3.05	200
SWI 0805 HT 470 □□□	47	14	2.52	J, K, M	15	4.42	160
SWI 0805 HT 560 □□□	56	14	2.52	J, K, M	10	5.74	150
SWI 0805 HT 680 □□□	68	14	2.52	J, K, M	10	5.78	140
SWI 0805 HT 820 □□□	82	14	2.52	J, K, M	10	9.75	100
SWI 0805 HT 101 □□□	100	10	1.00	J, K, M	9	9.75	100
SWI 0805 HT 221 □□□	220	8	1.00	J, K, M	4	30.0	70

- * 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)
	(μ H)	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI 1008 FT R10 □□□	0.10	25	25.2	K, J	930	0.20	1300
SWI 1008 FT R12 □□□	0.12	26	25.2	K, J	930	0.30	1000
SWI 1008 FT R15 □□□	0.15	26	25.2	K, J	930	0.30	960
SWI 1008 FT R18 □□□	0.18	30	25.2	K, J	930	0.30	960
SWI 1008 FT R22 □□□	0.22	27	25.2	K, J	750	0.40	880
SWI 1008 FT R27 □□□	0.27	29	25.2	K, J	700	0.42	900
SWI 1008 FT R33 □□□	0.33	30	25.2	K, J	600	0.42	900
SWI 1008 FT R39 □□□	0.39	30	25.2	K, J	480	0.45	920
SWI 1008 FT R47 □□□	0.47	30	25.2	K, J	470	0.50	920
SWI 1008 FT R56 □□□	0.56	30	25.2	K, J	460	0.55	900
SWI 1008 FT R68 □□□	0.68	30	25.2	K, J	420	0.55	880
SWI 1008 FT R82 □□□	0.82	30	25.2	K, J	420	0.65	880
SWI 1008 FT 1R0 □□□	1.0	25	7.96	K, J	380	0.65	840
SWI 1008 FT 1R2 □□□	1.2	25	7.96	K, J	300	0.60	800
SWI 1008 FT 1R5 □□□	1.5	25	7.96	K, J	280	0.74	800
SWI 1008 FT 1R8 □□□	1.8	25	7.96	K, J	245	0.85	780
SWI 1008 FT 2R2 □□□	2.2	25	7.96	K, J	240	0.92	780
SWI 1008 FT 2R7 □□□	2.7	25	7.96	K, J	205	1.10	760
SWI 1008 FT 3R3 □□□	3.3	25	7.96	K, J	187	1.22	760
SWI 1008 FT 3R9 □□□	3.9	25	7.96	K, J	165	1.37	740
SWI 1008 FT 4R7 □□□	4.7	25	7.96	K, J	144	1.66	700
SWI 1008 FT 5R6 □□□	5.6	25	7.96	K, J	110	1.68	660
SWI 1008 FT 6R8 □□□	6.8	25	7.96	K, J	88	1.75	640
SWI 1008 FT 8R2 □□□	8.2	25	7.96	K, J	70	1.85	640
SWI 1008 FT 100 □□□	10	20	7.96	K, J	57	2.00	600
SWI 1008 FT 120 □□□	12	15	2.52	K, J	55	2.32	600
SWI 1008 FT 150 □□□	15	15	2.52	K, J	52	2.99	560
SWI 1008 FT 180 □□□	18	15	2.52	K, J	49	3.42	480
SWI 1008 FT 220 □□□	22	15	2.52	K, J	48	4.65	420
SWI 1008 FT 270 □□□	27	15	2.52	K, J	25	5.12	420
SWI 1008 FT 330 □□□	33	15	2.52	K, J	23	5.76	420
SWI 1008 FT 390 □□□	39	15	2.52	K, J	17	6.44	400
SWI 1008 FT 470 □□□	47	14	2.52	K, J	15	6.85	380
SWI 1008 FT 560 □□□	56	14	2.52	K, J	13	9.94	260
SWI 1008 FT 680 □□□	68	14	2.52	K, J	10	10.7	280
SWI 1008 FT 820 □□□	82	14	2.52	K, J	8	12.8	260
SWI 1008 FT 101 □□□	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

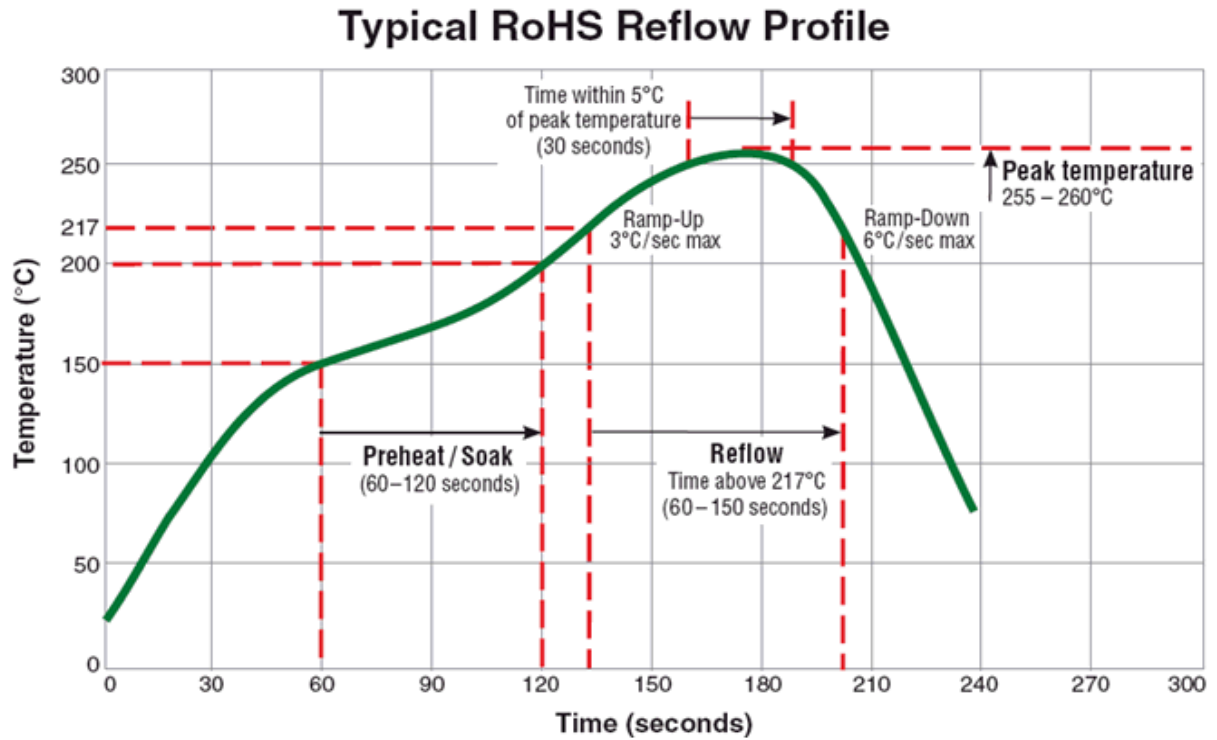
Size 1008 Ferrite Type/High Current

Part No.	Inductance	Q	Test Freq.	Tol.	S.R.F.(min)	RDC(max)	IDC(max)
	(uH)	(min)	(MHz)	(%)	(MHz)	(Ω)	(mA)
SWI 1008 HT R10 □□□	0.10	35	25.2	K, J	1500	0.05	3200
SWI 1008 HT R22 □□□	0.22	35	25.2	K, J	800	0.15	2900
SWI 1008 HT R39 □□□	0.39	35	25.2	K, J	460	0.20	2100
SWI 1008 HT R47 □□□	0.47	35	25.2	K, J	460	0.20	2100
SWI 1008 HT R56 □□□	0.56	35	25.2	K, J	360	0.26	1800
SWI 1008 HT R68 □□□	0.68	35	25.2	K, J	400	0.30	1700
SWI 1008 HT R82 □□□	0.82	35	25.2	K, J	360	0.35	1400
SWI 1008 HT 1R0 □□□	1.0	32	7.96	K, J	340	0.34	1700
SWI 1008 HT 1R2 □□□	1.2	25	7.96	K, J	300	0.25	1600
SWI 1008 HT 1R5 □□□	1.5	32	7.96	K, J	230	0.42	1200
SWI 1008 HT 1R8 □□□	1.8	27	7.96	K, J	180	0.45	1100
SWI 1008 HT 2R2 □□□	2.2	27	7.96	K, J	140	0.50	1100
SWI 1008 HT 2R7 □□□	2.7	27	7.96	K, J	130	0.55	1000
SWI 1008 HT 3R3 □□□	3.3	27	7.96	K, J	125	0.60	1000
SWI 1008 HT 3R9 □□□	3.9	27	7.96	K, J	100	0.80	990
SWI 1008 HT 4R7 □□□	4.7	30	7.96	K, J	90	0.90	880
SWI 1008 HT 5R6 □□□	5.6	27	7.96	K, J	60	1.00	850
SWI 1008 HT 6R8 □□□	6.8	27	7.96	K, J	60	1.05	840
SWI 1008 HT 8R2 □□□	8.2	25	7.96	K, J	55	1.20	810
SWI 1008 HT 100 □□□	10	23	2.52	K, J	55	1.55	700
SWI 1008 HT 120 □□□	12	23	2.52	K, J	36	2.10	580
SWI 1008 HT 150 □□□	15	23	2.52	K, J	36	2.38	580
SWI 1008 HT 180 □□□	18	23	2.52	K, J	32	2.50	520
SWI 1008 HT 220 □□□	22	23	2.52	K, J	29	2.92	500
SWI 1008 HT 270 □□□	27	23	2.52	K, J	22	3.70	450
SWI 1008 HT 330 □□□	33	23	2.52	K, J	21	4.10	420
SWI 1008 HT 390 □□□	39	18	2.52	K, J	15	5.50	340
SWI 1008 HT 470 □□□	47	23	2.52	K, J	17	7.80	310
SWI 1008 HT 680 □□□	68	20	2.52	K, J	9	11.5	220
SWI 1008 HT 101 □□□	100	13	1.00	K, J	4	13.2	210
SWI 1008 HT 101 □□□	150	13	1.00	K, J	3	22.5	170
SWI 1008 HT 221 □□□	220	13	1.00	K, J	3	26.5	160
SWI 1008 HT 271 □□□	270	13	1.00	K, J	2	32.0	135
SWI 1008 HT 331 □□□	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.

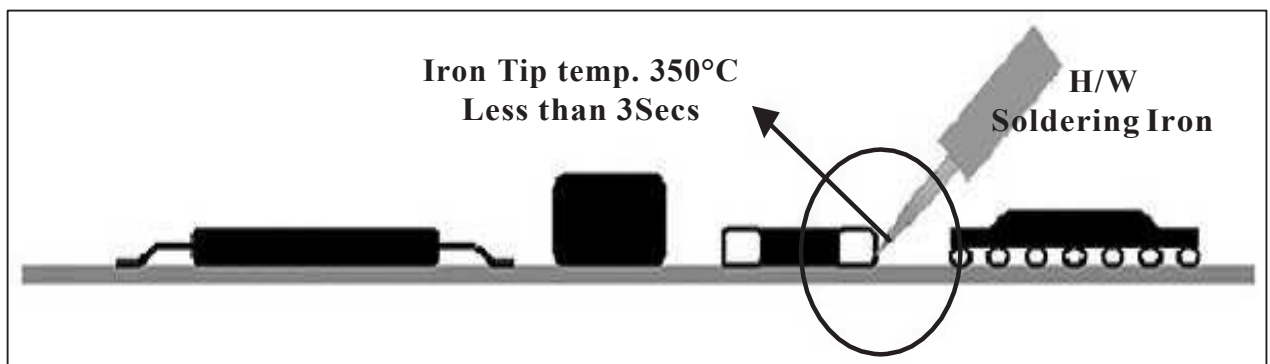
■ **Soldering Profile**

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
Mechanical Characteristics	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= $\frac{L1-L2}{L1(T1-T2)} \times 106$ (ppm / °C)
Electrical Characteristics	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

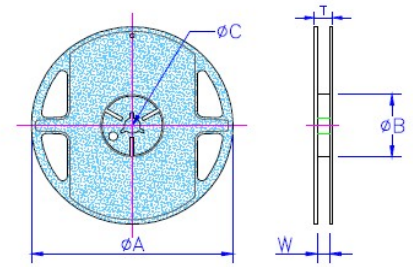
SWI SERIES

	ITEM	CONDITION	SPECIFICATION
Endurance Characteristics	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.

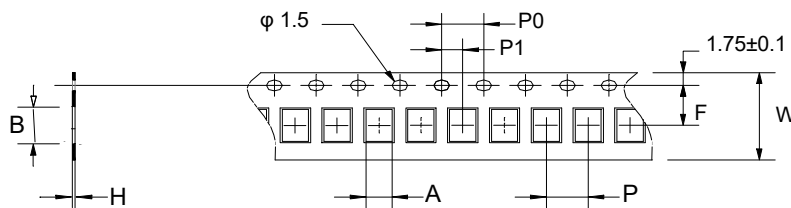
■ Packaging

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



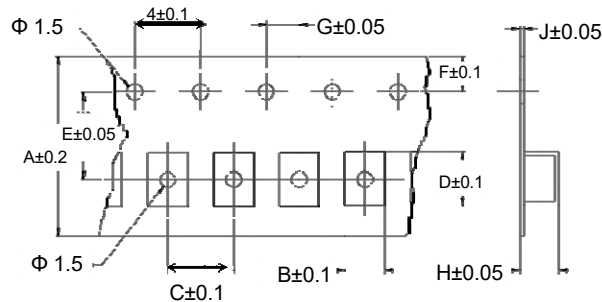
Paper Tape Specifications



Unit: mm

Type	A	B	H	F	P	P ₀	P ₁	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

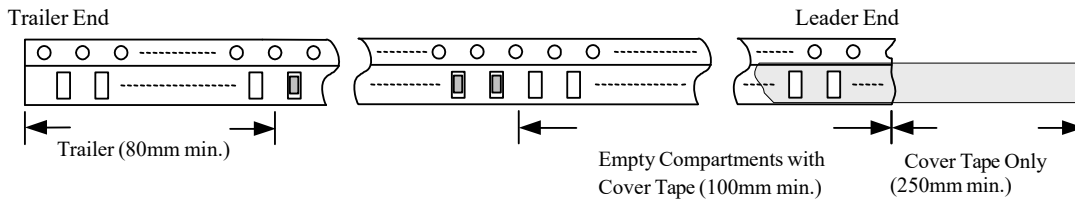
Embossed Plastic Tape Specifications



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

