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CHIP INDUCTOR  
THIN FILM TYPE

## SFI 0402 (1005) CERAMIC SERIES

## Specification

Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup>		Test Freq. (MHZ)	S.R.F. <sup>3</sup> Min (GHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
			Min	Typical				
			100MHz	1000MHz				
SFI 0402 CT 1N0	1.0	S	5	24	100	12	0.10	300
SFI 0402 CT 1N2	1.2	S	5	26	100	11	0.15	300
SFI 0402 CT 1N5	1.5	S	6	28	100	9.5	0.16	300
SFI 0402 CT 1N8	1.8	S	6	29	100	8.5	0.20	300
SFI 0402 CT 2N2	2.2	S	6	29	100	8	0.21	300
SFI 0402 CT 2N7	2.7	S	6	30	100	7.5	0.23	300
SFI 0402 CT 3N3	3.3	S	7	32	100	7	0.25	300
SFI 0402 CT 3N9	3.9	S	7	30	100	6.5	0.28	300
SFI 0402 CT 4N7	4.7	S	7	31	100	6	0.32	300
SFI 0402 CT 5N6	5.6	D	7	31	100	5.7	0.35	300
SFI 0402 CT 6N8	6.8	D	7	31	100	5.5	0.38	300
SFI 0402 CT 8N2	8.2	D	7	31	100	5	0.42	300
SFI 0402 CT 10N	10	J	7	31	100	4.7	0.45	200
SFI 0402 CT 12N	12	J	7	32	100	4.3	0.50	200
SFI 0402 CT 15N	15	J	7	30	100	4	0.55	200
SFI 0402 CT 18N	18	J	7	30	100	3.7	0.65	200
SFI 0402 CT 22N	22	J	7	30	100	3.5	0.75	200
SFI 0402 CT 27N	27	J	7	28	100	3	0.95	200
SFI 0402 CT 33N	33	J	7	27	100	2.5	1.10	200
SFI 0402 CT 39N	39	J	6	27	100	2	1.20	100
SFI 0402 CT 47N	47	J	6	26	100	1.8	1.30	100
SFI 0402 CT 56N	56	J	6	25	100	1.5	1.40	100
SFI 0402 CT 68N	68	J	6	23	100	1.2	1.60	100
SFI 0402 CT 82N	82	J	6	20	100	1	1.80	50
SFI 0402 CT R10	100	J	6	20	100	0.8	2.20	50

1. Inductance is measured in HP-4291B impedance analyzer with HP-16192 fixture.

2. Q is measured in HP-4291B impedance analyzer with HP-16192 fixture.

3. SRF is measured in HP-8753E RF network analyzer.

4. RDC is measured in HP-4338B milliohmeter.

5. For 20 °C Rise.

CHIP INDUCTOR  
LASER CUT TYPE

## SPI 0603 (1608) CERAMIC SERIES

## Specification

Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup>		RDC <sup>4</sup>		IDC <sup>5</sup>
				Min (MHZ)	Max	Max (OHM)	Max (MA)	
SPI 0603 CT 1N0	1.0 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.06		500
SPI 0603 CT 1N2	1.2 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.06		500
SPI 0603 CT 1N5	1.5 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.07		500
SPI 0603 CT 1N8	1.8 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.08		500
SPI 0603 CT 2N2	2.2 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.09		500
SPI 0603 CT 2N7	2.7 @ 100 MHZ	B, S	30 @ 1000 MHZ	6000		0.10		500
SPI 0603 CT 3N3	3.3 @ 100 MHZ	B, S	30 @ 1000 MHZ	5500		0.12		500
SPI 0603 CT 3N9	3.9 @ 100 MHZ	J, G	30 @ 1000 MHZ	5500		0.15		450
SPI 0603 CT 4N7	4.7 @ 100 MHZ	J, G	30 @ 1000 MHZ	4800		0.17		450
SPI 0603 CT 5N6	5.6 @ 100 MHZ	J, G	30 @ 1000 MHZ	4600		0.18		430
SPI 0603 CT 6N8	6.8 @ 100 MHZ	J, G	30 @ 1000 MHZ	3550		0.20		430
SPI 0603 CT 8N2	8.2 @ 100 MHZ	J, G	30 @ 1000 MHZ	3500		0.28		400
SPI 0603 CT 10N	10 @ 100 MHZ	J, G	30 @ 500 MHZ	2800		0.32		400
SPI 0603 CT 12N	12 @ 100 MHZ	J, G	30 @ 500 MHZ	2800		0.35		400
SPI 0603 CT 15N	15 @ 100 MHZ	J, G	30 @ 500 MHZ	2500		0.41		350
SPI 0603 CT 18N	18 @ 100 MHZ	J, G	30 @ 500 MHZ	2300		0.45		350
SPI 0603 CT 22N	22 @ 100 MHZ	J, G	30 @ 500 MHZ	2000		0.50		300
SPI 0603 CT 27N	27 @ 100 MHZ	J, G	30 @ 500 MHZ	2000		0.55		300
SPI 0603 CT 33N	33 @ 100 MHZ	J, G	30 @ 500 MHZ	1800		0.60		300
SPI 0603 CT 39N	39 @ 100 MHZ	J, G	30 @ 500 MHZ	1800		0.80		300
SPI 0603 CT 47N	47 @ 100 MHZ	J, G	30 @ 500 MHZ	1800		0.95		250
SPI 0603 CT 56N	56 @ 100 MHZ	J, G	30 @ 500 MHZ	1800		1.20		250
SPI 0603 CT 68N	68 @ 100 MHZ	J, G	30 @ 500 MHZ	1500		1.30		250
SPI 0603 CT 82N	82 @ 100 MHZ	J, G	30 @ 500 MHZ	1500		1.50		250
SPI 0603 CT R10	100 @ 100 MHZ	J, G	26 @ 500 MHZ	1300		1.80		200
SPI 0603 CT R12	120 @ 100 MHZ	J, G	26 @ 500 MHZ	1200		3.00		130
SPI 0603 CT R15	150 @ 100 MHZ	J, G	26 @ 500 MHZ	1100		4.50		100
SPI 0603 CT R18	180 @ 100 MHZ	J, G	20 @ 500 MHZ	1000		6.50		80
SPI 0603 CT R22	220 @ 100 MHZ	J, G	20 @ 500 MHZ	900		7.50		70

1. Inductance is measured in HP-4291B impedance analyzer with HP-16192 fixture.

2. Q is measured in HP-4291B impedance analyzer with HP-16192 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16192 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 0402 (1005) CERAMIC SERIES

## Specification

Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup>		S.R.F. <sup>3</sup> Min (MHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
			Min	Typical @900MHz			
SWI 0402CT 1N0	1.0 @ 250 MHZ	B, S	16	77	6000	0.045	1360
SWI 0402CT 2N0	2.0 @ 250 MHZ	B, S	16	54	6000	0.070	1040
SWI 0402CT 2N2	2.2 @ 250 MHZ	B, S	19	59	6000	0.070	960
SWI 0402CT 3N3	3.3 @ 250 MHZ	B, S	19	65	6000	0.066	840
SWI 0402CT 3N6	3.6 @ 250 MHZ	B, S	19	45	6000	0.066	840
SWI 0402CT 3N9	3.9 @ 250 MHZ	B, S	19	50	5800	0.066	840
SWI 0402CT 5N1	5.1 @ 250 MHZ	K, J, G	20	56	5800	0.083	800
SWI 0402CT 5N6	5.6 @ 250 MHZ	K, J, G	20	54	5800	0.083	760
SWI 0402CT 6N2	6.2 @ 250 MHZ	K, J, G	20	52	5800	0.083	760
SWI 0402CT 7N5	7.5 @ 250 MHZ	K, J, G	22	60	5800	0.104	680
SWI 0402CT 8N2	8.2 @ 250 MHZ	K, J, G	22	57	4400	0.104	680
SWI 0402CT 9N0	9.0 @ 250 MHZ	K, J, G	22	62	4160	0.104	681
SWI 0402CT 10N	10 @ 250 MHZ	K, J, G	21	50	3900	0.195	480
SWI 0402CT 11N	11 @ 250 MHZ	K, J, G	24	52	3680	0.120	640
SWI 0402CT 12N	12 @ 250 MHZ	K, J, G	24	53	3600	0.120	640
SWI 0402CT 15N	15 @ 250 MHZ	K, J, G	24	55	3280	0.172	560
SWI 0402CT 19N	19 @ 250 MHZ	K, J, G	24	50	3040	0.202	480
SWI 0402CT 23N	23 @ 250 MHZ	K, J, G	24	49	2720	0.214	400
SWI 0402CT 27N	27 @ 250 MHZ	K, J, G	24	49	2480	0.298	400
SWI 0402CT 36N	36 @ 250 MHZ	K, J, G	24	44	2320	0.403	320
SWI 0402CT 40N	40 @ 250 MHZ	K, J, G	24	44	2240	0.438	320
SWI 0402CT 47N	47 @ 200 MHZ	K, J, G	20	38	2100	0.830	150

1. Inductance is measured in HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 0603 (1608) CERAMIC SERIES

Specification							
Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup>		S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
			Min	Typical @900MHZ	Min (MHZ)	Max (OHM)	Max (MA)
SWI 0603 CT 2N0	2.0 @ 250 MHZ	B, S	18	31	6900	0.08	700
SWI 0603 CT 3N9	3.9 @ 250 MHZ	B, S	22	50	6900	0.08	700
SWI 0603 CT 4N7	4.7 @ 250 MHZ	B, S	20	47	5800	0.11	700
SWI 0603 CT 6N8	6.8 @ 250 MHZ	K, J, G	28	62	5800	0.11	700
SWI 0603 CT 8N2	8.2 @ 250 MHZ	K, J, G	30	72	4600	0.10	700
SWI 0603 CT 10N	10 @ 250 MHZ	K, J, G	31	66	4800	0.13	700
SWI 0603 CT 12N	12 @ 250 MHZ	K, J, G	35	72	4000	0.13	700
SWI 0603 CT 15N	15 @ 250 MHZ	K, J, G	35	68	4000	0.17	700
SWI 0603 CT 18N	18 @ 250 MHZ	K, J, G	35	75	3100	0.17	700
SWI 0603 CT 22N	22 @ 250 MHZ	K, J, G	38	73	3000	0.19	700
SWI 0603 CT 27N	27 @ 250 MHZ	K, J, G	40	75	2800	0.22	600
SWI 0603 CT 33N	33 @ 250 MHZ	K, J, G	43	78	2300	0.22	600
SWI 0603 CT 39N	39 @ 250 MHZ	K, J, G	43	66	2200	0.25	600
SWI 0603 CT 47N	47 @ 200 MHZ	K, J, G	40	65	2000	0.28	600
SWI 0603 CT 56N	56 @ 200 MHZ	K, J, G	40	65	1900	0.31	600
SWI 0603 CT 68N	68 @ 200 MHZ	K, J, G	40	58	1700	0.34	600
SWI 0603 CT 72N	72 @ 150 MHZ	K, J, G	35	58	1700	0.49	400
SWI 0603 CT 82N	82 @ 150 MHZ	K, J, G	35	57	1700	0.54	400
SWI 0603 CT R10	100 @ 150 MHZ	K, J, G	35	56	1400	0.63	400
SWI 0603 CT R12	120 @ 150 MHZ	K, J, G	35	43	1300	0.65	300
SWI 0603 CT R15	150 @ 150 MHZ	K, J, G	35	33	1000	0.92	280
SWI 0603 CT R18	180 @ 100 MHZ	K, J, G	30	26	1000	1.25	240
SWI 0603 CT R22	220 @ 100 MHZ	K, J, G	30	23	1000	1.70	200
SWI 0603 CT R27	270 @ 100 MHZ	K, J, G	30	10	1000	1.80	170

1. Inductance is measured in HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 0805 (2012) CERAMIC SERIES

Specification						
Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup> Min (MHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
SWI 0805CT 2N2	2.2 @ 250 MHZ	B, S	50 @ 1000 MHZ	6000	0.06	800
SWI 0805CT 2N7	2.7 @ 250 MHZ	B, S	35 @ 1000 MHZ	6000	0.08	800
SWI 0805CT 3N9	3.9 @ 250 MHZ	B, S	60 @ 1000 MHZ	6000	0.06	600
SWI 0805CT 4N7	4.7 @ 250 MHZ	B, S	60 @ 1000 MHZ	5800	0.06	600
SWI 0805CT 5N6	5.6 @ 250 MHZ	K, J, G	60 @ 1000 MHZ	5800	0.08	600
SWI 0805CT 6N8	6.8 @ 250 MHZ	K, J, G	60 @ 1000 MHZ	5500	0.06	600
SWI 0805CT 8N2	8.2 @ 250 MHZ	K, J, G	60 @ 1000 MHZ	5500	0.06	600
SWI 0805CT 10N	10 @ 250 MHZ	K, J, G	60 @ 500 MHZ	4800	0.08	600
SWI 0805CT 12N	12 @ 250 MHZ	K, J, G	60 @ 500 MHZ	4100	0.08	600
SWI 0805CT 15N	15 @ 250 MHZ	K, J, G	60 @ 500 MHZ	3600	0.08	600
SWI 0805CT 18N	18 @ 250 MHZ	K, J, G	60 @ 500 MHZ	3400	0.08	600
SWI 0805CT 22N	22 @ 250 MHZ	K, J, G	60 @ 500 MHZ	3300	0.10	600
SWI 0805CT 27N	27 @ 250 MHZ	K, J, G	60 @ 500 MHZ	2600	0.12	600
SWI 0805CT 33N	33 @ 250 MHZ	K, J, G	60 @ 500 MHZ	2400	0.15	500
SWI 0805CT 39N	39 @ 250 MHZ	K, J, G	60 @ 500 MHZ	2100	0.18	500
SWI 0805CT 47N	47 @ 200 MHZ	K, J, G	60 @ 500 MHZ	1700	0.15	500
SWI 0805CT 56N	56 @ 200 MHZ	K, J, G	60 @ 500 MHZ	1600	0.25	500
SWI 0805CT 68N	68 @ 200 MHZ	K, J, G	60 @ 500 MHZ	1450	0.27	500
SWI 0805CT 82N	82 @ 150 MHZ	K, J, G	60 @ 500 MHZ	1350	0.32	500
SWI 0805CT R10	100 @ 150 MHZ	K, J, G	60 @ 500 MHZ	1200	0.43	500
SWI 0805CT R12	120 @ 150 MHZ	K, J, G	50 @ 250 MHZ	1100	0.48	500
SWI 0805CT R15	150 @ 100 MHZ	K, J, G	50 @ 250 MHZ	950	0.56	400
SWI 0805CT R18	180 @ 100 MHZ	K, J, G	50 @ 250 MHZ	900	0.78	400
SWI 0805CT R22	220 @ 100 MHZ	K, J, G	50 @ 250 MHZ	860	1.00	400
SWI 0805CT R27	270 @ 100 MHZ	K, J, G	45 @ 250 MHZ	850	1.46	350
SWI 0805CT R33	330 @ 100 MHZ	K, J, G	45 @ 250 MHZ	800	1.65	300
SWI 0805CT R39	390 @ 100 MHZ	K, J, G	45 @ 250 MHZ	780	2.20	210

1. Inductance is measured in HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

**CHIP INDUCTOR  
WIRE WOUND TYPE**

## SWI 0805 (2012) FERRITE SERIES

### Specification

Part No.	Inductance <sup>1</sup> (uH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
				Min (MHZ)	Max (OHM)	Max (MA)
SWI 0805FT R47	0.47 @ 25 MHZ	K, J, G	45 @ 100 MHZ	375	0.95	500
SWI 0805FT R56	0.56 @ 25 MHZ	K, J, G	45 @ 100 MHZ	340	1.10	450
SWI 0805FT R68	0.68 @ 25 MHZ	K, J, G	35 @ 100 MHZ	188	1.20	400
SWI 0805FT R82	0.82 @ 25 MHZ	K, J, G	35 @ 100 MHZ	215	1.50	300
SWI 0805FT 1R0	1.0 @ 25 MHZ	K, J, G	35 @ 50 MHZ	200	2.13	180
SWI 0805FT 1R2	1.2 @ 7.96 MHZ	K, J, G	15 @ 7.96 MHZ	200	2.38	150
SWI 0805FT 1R5	1.5 @ 7.96 MHZ	K, J, G	15 @ 7.96 MHZ	200	2.90	130
SWI 0805FT 1R8	1.8 @ 7.96 MHZ	K, J, G	15 @ 7.96 MHZ	120	3.00	120
SWI 0805FT 2R2	2.2 @ 7.96 MHZ	K, J, G	15 @ 7.96 MHZ	110	3.10	110

1. Inductance is measured in HP-4285A Precision LCR meter/  
HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4285A Precision LCR meter,  
HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer  
with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmeter.

5. For 15 °C Rise.



## Specification

Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
				Min (MHZ)	Max (OHM)	Max (MA)
SWI 1008 CT 3N3	3.3 @ 100 MHZ	B, S	50 @ 1000 MHZ	6000	0.06	1000
SWI 1008 CT 6N8	6.8 @ 100 MHZ	K, J, G	50 @ 1000 MHZ	5500	0.06	1000
SWI 1008 CT 8N2	8.2 @ 100 MHZ	K, J, G	50 @ 1000 MHZ	5500	0.06	1000
SWI 1008 CT 10N	10 @ 100 MHZ	K, J, G	50 @ 1000 MHZ	4300	0.08	1000
SWI 1008 CT 12N	12 @ 100 MHZ	K, J, G	60 @ 500 MHZ	3600	0.08	1000
SWI 1008 CT 15N	15 @ 100 MHZ	K, J, G	60 @ 500 MHZ	2700	0.08	1000
SWI 1008 CT 18N	18 @ 100 MHZ	K, J, G	60 @ 350 MHZ	2700	0.10	1000
SWI 1008 CT 22N	22 @ 100 MHZ	K, J, G	60 @ 350 MHZ	2500	0.10	1000
SWI 1008 CT 27N	27 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1800	0.10	1000
SWI 1008 CT 33N	33 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1700	0.10	1000
SWI 1008 CT 39N	39 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1500	0.10	1000
SWI 1008 CT 47N	47 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1500	0.10	1000
SWI 1008 CT 56N	56 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1350	0.12	1000
SWI 1008 CT 68N	68 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1300	0.15	1000
SWI 1008 CT 82N	82 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1100	0.18	1000
SWI 1008 CT R10	100 @ 100 MHZ	K, J, G	60 @ 350 MHZ	1100	0.18	1000
SWI 1008 CT R12	120 @ 25 MHZ	K, J, G	45 @ 100 MHZ	950	0.20	800
SWI 1008 CT R15	150 @ 25 MHZ	K, J, G	45 @ 100 MHZ	880	0.22	800
SWI 1008 CT R18	180 @ 25 MHZ	K, J, G	45 @ 100 MHZ	800	0.33	800
SWI 1008 CT R22	220 @ 25 MHZ	K, J, G	45 @ 100 MHZ	730	0.45	800
SWI 1008 CT R27	270 @ 25 MHZ	K, J, G	45 @ 100 MHZ	650	0.75	600
SWI 1008 CT R33	330 @ 25 MHZ	K, J, G	45 @ 100 MHZ	570	0.90	500
SWI 1008 CT R39	390 @ 25 MHZ	K, J, G	45 @ 100 MHZ	530	1.06	470
SWI 1008 CT R47	470 @ 25 MHZ	K, J, G	45 @ 100 MHZ	480	1.17	420
SWI 1008 CT R56	560 @ 25 MHZ	K, J, G	45 @ 100 MHZ	430	1.50	310
SWI 1008 CT R68	680 @ 25 MHZ	K, J, G	45 @ 100 MHZ	380	2.06	230
SWI 1008 CT R75	750 @ 25 MHZ	K, J, G	45 @ 100 MHZ	360	2.20	200
SWI 1008 CT R82	820 @ 25 MHZ	K, J, G	45 @ 100 MHZ	350	2.30	180
SWI 1008 CT R91	910 @ 25 MHZ	K, J, G	45 @ 100 MHZ	330	3.18	150
SWI 1008 CT 1R0	1000 @ 25 MHZ	K, J, G	35 @ 50 MHZ	310	3.30	120

1. Inductance is measured in HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 1008 (2520) FERRITE SERIES

Specification						
Part No.	Inductance <sup>1</sup> (uH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup> Min (MHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
SWI 1008 FT 1R2	1.2 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	280	1.30	230
SWI 1008 FT 1R5	1.5 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	250	1.65	220
SWI 1008 FT 1R8	1.8 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	200	2.20	210
SWI 1008 FT 2R2	2.2 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	160	2.35	200
SWI 1008 FT 2R7	2.7 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	130	2.60	195
SWI 1008 FT 3R3	3.3 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	80	2.85	185
SWI 1008 FT 3R9	3.9 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	50	4.00	180
SWI 1008 FT 4R7	4.7 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	45	4.30	175
SWI 1008 FT 5R6	5.6 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	42	2.60	170
SWI 1008 FT 6R8	6.8 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	39	2.80	165
SWI 1008 FT 8R2	8.2 @ 7.96 MHZ	K, J, G	25 @ 7.96 MHZ	36	3.05	160
SWI 1008 FT 100	10 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	33	3.50	150
SWI 1008 FT 120	12 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	30	3.60	140
SWI 1008 FT 150	15 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	26	3.80	130
SWI 1008 FT 180	18 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	24	4.50	120
SWI 1008 FT 220	22 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	22	4.80	110
SWI 1008 FT 270	27 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	21	5.30	95
SWI 1008 FT 330	33 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	20	6.10	85
SWI 1008 FT 390	39 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	18	8.30	60
SWI 1008 FT 470	47 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	17	11.40	45

1. Inductance is measured in HP-4285A Precision LCR meter/  
HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4285A Precision LCR meter,  
HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer  
with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 1210 CERAMIC SERIES (3225)

Specification						
Part No.	Inductance <sup>1</sup> (nH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
				Min (MHZ)	Max (OHM)	Max (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, G	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	2300	0.08	1000
SWI 1210 CT 27N	27 @ 100 MHZ	K, J, G	60 @ 300 MHZ	2000	0.08	1000
SWI 1210 CT 33N	33 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1800	0.08	1000
SWI 1210 CT 39N	39 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1800	0.08	1000
SWI 1210 CT 47N	47 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1600	0.08	1000
SWI 1210 CT 56N	56 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1500	0.10	1000
SWI 1210 CT 68N	68 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1300	0.10	1000
SWI 1210 CT 82N	82 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1200	0.10	1000
SWI 1210 CT R10	100 @ 100 MHZ	K, J, G	60 @ 300 MHZ	1100	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

1. Inductance is measured in HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

CHIP INDUCTOR  
WIRE WOUND TYPE

## SWI 1210 (3225) FERRITE SERIES

Specification						
Part No.	Inductance <sup>1</sup> (uH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup> Min (MHZ)	RDC <sup>4</sup> Max (OHM)	IDC <sup>5</sup> Max (MA)
SWI 1210 FT 1R2	1.2 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	100	0.70	390
SWI 1210 FT 1R5	1.5 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	85	0.75	370
SWI 1210 FT 1R8	1.8 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	80	0.80	350
SWI 1210 FT 2R2	2.2 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	75	0.90	320
SWI 1210 FT 2R7	2.7 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	70	1.10	290
SWI 1210 FT 3R3	3.3 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	60	1.40	260
SWI 1210 FT 3R9	3.9 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	55	1.70	250
SWI 1210 FT 4R7	4.7 @ 7.96 MHZ	K, J, G	30 @ 7.96 MHZ	50	2.30	220
SWI 1210 FT 5R6	5.6 @ 7.96 MHZ	K, J, G	20 @ 7.96 MHZ	47	1.60	200
SWI 1210 FT 6R8	6.8 @ 7.96 MHZ	K, J, G	20 @ 7.96 MHZ	43	2.20	180
SWI 1210 FT 8R2	8.2 @ 7.96 MHZ	K, J, G	20 @ 7.96 MHZ	40	2.40	170
SWI 1210 FT 100	10 @ 2.52 MHZ	K, J, G	20 @ 2.52 MHZ	50	3.28	150
SWI 1210 FT 120	12 @ 2.52 MHZ	K, J, G	20 @ 2.52 MHZ	33	3.40	140
SWI 1210 FT 150	15 @ 2.52 MHZ	K, J, G	20 @ 2.52 MHZ	30	3.90	125
SWI 1210 FT 180	18 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	27	4.20	110
SWI 1210 FT 220	22 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	25	6.00	90
SWI 1210 FT 270	27 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	20	6.80	80
SWI 1210 FT 330	33 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	17	7.00	70
SWI 1210 FT 390	39 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	16	7.80	65
SWI 1210 FT 470	47 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	15	8.20	60
SWI 1210 FT 560	56 @ 2.52 MHZ	K, J, G	15 @ 2.52 MHZ	13	9.10	50
SWI 1210 FT 680	68 @ 2.52 MHZ	K, J, G	12 @ 2.52 MHZ	12	12.40	40
SWI 1210 FT 820	82 @ 2.52 MHZ	K, J, G	12 @ 2.52 MHZ	11	14.00	45
SWI 1210 FT 101	100 @ 2.52 MHZ	K, J, G	12 @ 0.796 MHZ	10	16.60	30

1. Inductance is measured in HP-4285A Precision LCR meter/  
HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4285A Precision LCR meter,  
HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer  
with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

## Specification

Part No.	Inductance <sup>1</sup> (uH)	Percent Tolerance	Q <sup>2</sup> Min	S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
				Min (MHZ)	Max (OHM)	Max (MA)
SWI 1812 FT 120	12 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	55	2.00	310
SWI 1812 FT 150	15 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	45	2.50	290
SWI 1812 FT 180	18 @ 2.52 MHZ	K, J	45 @ 2.52 MHZ	36	2.80	270
SWI 1812 FT 220	22 @ 2.52 MHZ	K, J	45 @ 2.52 MHZ	32	3.20	260
SWI 1812 FT 270	27 @ 2.52 MHZ	K, J	45 @ 2.52 MHZ	27	3.60	240
SWI 1812 FT 330	33 @ 2.52 MHZ	K, J	45 @ 2.52 MHZ	23	4.00	230
SWI 1812 FT 390	39 @ 2.52 MHZ	K, J	45 @ 2.52 MHZ	18	4.50	210
SWI 1812 FT 470	47 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	16	5.00	200
SWI 1812 FT 560	56 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	13	5.50	190
SWI 1812 FT 680	68 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	10	6.00	180
SWI 1812 FT 820	82 @ 2.52 MHZ	K, J	40 @ 2.52 MHZ	9	7.00	170
SWI 1812 FT 101	100 @ 2.52 MHZ	K, J	40 @ 0.796 MHZ	8.5	8.00	150
SWI 1812 FT 121	120 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	8.5	11.50	135
SWI 1812 FT 151	150 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	8.5	13.00	125
SWI 1812 FT 181	180 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	8	14.20	120
SWI 1812 FT 221	220 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	6	16.20	115
SWI 1812 FT 271	270 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	5	20.50	105
SWI 1812 FT 331	330 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	4.5	22.50	100
SWI 1812 FT 391	390 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	3.5	24.50	90
SWI 1812 FT 471	470 @ 7.96 MHZ	K, J	35 @ 0.796 MHZ	3	26.50	85
SWI 1812 FT 561	560 @ 7.96 MHZ	K, J	30 @ 0.796 MHZ	2	28.50	75
SWI 1812 FT 681	680 @ 7.96 MHZ	K, J	30 @ 0.796 MHZ	1.8	38.00	60
SWI 1812 FT 821	820 @ 7.96 MHZ	K, J	30 @ 0.796 MHZ	1.6	41.00	55
SWI 1812 FT 102	1000 @ 2.52 MHZ	K, J	30 @ 0.796 MHZ	1.5	41.00	50

1. Inductance is measured in HP-4285A Precision LCR meter/  
HP-4286A RF LCR meter with HP-16193 fixture.

2. Q is measured in HP-4285A Precision LCR meter,  
HP-4286A RF LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer  
with HP-16193 fixture.

4. RDC is measured in HP-4338B milliohmmeter.

5. For 15 °C Rise.

Specification								
Part No.	Inductance <sup>1</sup>		Percent Tolerance	Q <sup>2</sup>		S.R.F. <sup>3</sup>	RDC <sup>4</sup>	IDC <sup>5</sup>
	(uH)			Min		Min (MHZ)	Max (OHM)	Max (MA)
SCI 1210 FT R10	0.10	@ 100 MHZ	M	28	@ 100 MHZ	700	0.44	450
SCI 1210 FT R12	0.12	@ 25.2 MHZ	M	30	@ 100 MHZ	500	0.22	450
SCI 1210 FT R15	0.15	@ 25.2 MHZ	M	30	@ 100 MHZ	450	0.25	450
SCI 1210 FT R18	0.18	@ 25.2 MHZ	M	30	@ 100 MHZ	400	0.28	450
SCI 1210 FT R22	0.22	@ 25.2 MHZ	M	30	@ 25.2 MHZ	350	0.32	450
SCI 1210 FT R27	0.27	@ 25.2 MHZ	M	30	@ 25.2 MHZ	320	0.36	450
SCI 1210 FT R33	0.33	@ 25.2 MHZ	M	30	@ 25.2 MHZ	300	0.40	450
SCI 1210 FT R39	0.39	@ 25.2 MHZ	M	30	@ 25.2 MHZ	250	0.45	450
SCI 1210 FT R47	0.47	@ 25.2 MHZ	M	30	@ 25.2 MHZ	300	0.40	450
SCI 1210 FT R56	0.56	@ 25.2 MHZ	M	30	@ 25.2 MHZ	220	0.50	450
SCI 1210 FT R68	0.68	@ 25.2 MHZ	M	30	@ 25.2 MHZ	180	0.55	450
SCI 1211 FT R82	0.82	@ 25.2 MHZ	M	30	@ 25.2 MHZ	140	0.65	400
SCI 1210 FT 1R0	1.0	@ 7.96 MHZ	K	30	@ 7.96 MHZ	120	0.70	400
SCI 1210 FT 1R2	1.2	@ 7.96 MHZ	K	30	@ 7.96 MHZ	100	0.75	390
SCI 1210 FT 1R5	1.5	@ 7.96 MHZ	K	30	@ 7.96 MHZ	85	0.85	370
SCI 1210 FT 1R8	1.8	@ 7.96 MHZ	K	30	@ 7.96 MHZ	80	0.90	350
SCI 1210 FT 2R2	2.2	@ 7.96 MHZ	K	30	@ 7.96 MHZ	75	1.00	320
SCI 1210 FT 2R7	2.7	@ 7.96 MHZ	K	30	@ 7.96 MHZ	70	1.10	290
SCI 1210 FT 3R3	3.3	@ 7.96 MHZ	K	30	@ 7.96 MHZ	60	1.20	260
SCI 1210 FT 3R9	3.9	@ 7.96 MHZ	K	30	@ 7.96 MHZ	55	1.30	250
SCI 1210 FT 4R7	4.7	@ 7.96 MHZ	K	30	@ 7.96 MHZ	50	1.50	220
SCI 1210 FT 5R6	5.6	@ 7.96 MHZ	K	30	@ 7.96 MHZ	47	1.60	200
SCI 1210 FT 6R8	6.8	@ 7.96 MHZ	K	30	@ 7.96 MHZ	43	1.80	180
SCI 1210 FT 8R2	8.2	@ 7.96 MHZ	K	30	@ 7.96 MHZ	40	2.00	170
SCI 1210 FT 100	10.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	36	2.10	150
SCI 1210 FT 120	12.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	33	2.50	140
SCI 1210 FT 150	15.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	30	2.80	130
SCI 1210 FT 180	18.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	27	3.30	120
SCI 1210 FT 220	22.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	25	3.70	110
SCI 1210 FT 270	27.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	20	5.00	80
SCI 1210 FT 330	33.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	17	5.60	70
SCI 1210 FT 390	39.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	16	6.40	65
SCI 1210 FT 470	47.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	15	7.00	60
SCI 1210 FT 560	56.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	13	8.00	55
SCI 1210 FT 680	68.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	12	9.00	50
SCI 1210 FT 820	82.0	@ 2.52 MHZ	K	30	@ 2.52 MHZ	11	10.00	45
SCI 1210 FT 101	100.0	@ 0.796 MHZ	K	20	@ 0.796 MHZ	10	11.00	40

1. Inductance is measured in HP-4285A Precision LCR meter/  
HP-4287A LCR meter with HP-16193 fixture.

2. Q is measured in HP-4285A Precision LCR meter,  
HP-4287A LCR meter with HP-16193 fixture.

3. SRF is measured in HP-8753E RF network analyzer.

4. RDC is measured in HP-4338B milliohmeter.

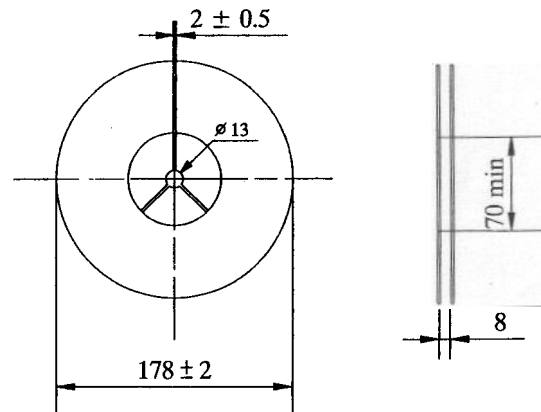
5. For 15 °C Rise.

Specification										
Part No.	Inductance <sup>1</sup>			Percent Tolerance	Q <sup>2</sup>		S.R.F. <sup>3</sup>		RDC <sup>4</sup>	IDC <sup>5</sup>
	(uH)				Min	Min	Min	Max	Max	Max
						(MHZ)	(OHM)	(MA)		
SCI 1812 FT R10	0.10	@	25.2 MHZ	M	35	@ 25.2 MHZ	300	0.18	800	
SCI 1812 FT R12	0.12	@	25.2 MHZ	M	35	@ 25.2 MHZ	280	0.20	770	
SCI 1812 FT R15	0.15	@	25.2 MHZ	M	35	@ 25.2 MHZ	250	0.22	730	
SCI 1812 FT R18	0.18	@	25.2 MHZ	M	35	@ 25.2 MHZ	220	0.24	700	
SCI 1812 FT R22	0.22	@	25.2 MHZ	M	40	@ 25.2 MHZ	200	0.25	665	
SCI 1812 FT R27	0.27	@	25.2 MHZ	M	40	@ 25.2 MHZ	180	0.26	635	
SCI 1812 FT R33	0.33	@	25.2 MHZ	M	40	@ 25.2 MHZ	165	0.28	605	
SCI 1812 FT R39	0.39	@	25.2 MHZ	M	40	@ 25.2 MHZ	150	0.30	575	
SCI 1812 FT R47	0.47	@	25.2 MHZ	M	40	@ 25.2 MHZ	145	0.32	545	
SCI 1812 FT R56	0.56	@	25.2 MHZ	M	40	@ 25.2 MHZ	140	0.36	520	
SCI 1812 FT R68	0.68	@	25.2 MHZ	M	40	@ 25.2 MHZ	135	0.40	500	
SCI 1812 FT R82	0.82	@	25.2 MHZ	M	40	@ 25.2 MHZ	130	0.45	475	
SCI 1812 FT 1R0	1.0	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	100	0.50	450	
SCI 1812 FT 1R2	1.2	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	80	0.55	430	
SCI 1812 FT 1R5	1.5	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	70	0.60	410	
SCI 1812 FT 1R8	1.8	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	60	0.65	390	
SCI 1812 FT 2R2	2.2	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	55	0.70	380	
SCI 1812 FT 2R7	2.7	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	50	0.75	370	
SCI 1812 FT 3R3	3.3	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	45	0.80	355	
SCI 1812 FT 3R9	3.9	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	40	0.90	330	
SCI 1812 FT 4R7	4.7	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	35	1.00	315	
SCI 1812 FT 5R6	5.6	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	33	1.10	300	
SCI 1812 FT 6R8	6.8	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	27	1.20	285	
SCI 1812 FT 8R2	8.2	@	7.96 MHZ	J, K	50	@ 7.96 MHZ	25	1.40	270	
SCI 1812 FT 100	10	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	20	1.60	250	
SCI 1812 FT 120	12	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	18	2.00	225	
SCI 1812 FT 150	15	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	17	2.50	200	
SCI 1812 FT 180	18	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	15	2.80	190	
SCI 1812 FT 220	22	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	13	3.20	180	
SCI 1812 FT 270	27	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	12	3.60	170	
SCI 1812 FT 330	33	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	11	4.00	160	
SCI 1812 FT 390	39	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	10	4.50	150	
SCI 1812 FT 470	47	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	10	5.00	140	
SCI 1812 FT 560	56	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	9.0	5.50	135	
SCI 1812 FT 680	68	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	9.0	6.00	130	
SCI 1812 FT 820	82	@	2.52 MHZ	J, K	50	@ 2.52 MHZ	8.0	7.00	120	
SCI 1812 FT 101	100	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	8.0	8.00	110	
SCI 1812 FT 121	120	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	6.0	8.00	110	
SCI 1812 FT 151	150	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	5.0	9.00	105	
SCI 1812 FT 181	180	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	5.0	9.50	102	
SCI 1812 FT 221	220	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	4.0	10.0	100	
SCI 1812 FT 271	270	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	4.0	12.0	92	
SCI 1812 FT 331	330	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	3.5	14.0	85	
SCI 1812 FT 391	390	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	3.0	18.0	80	
SCI 1812 FT 471	470	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	3.0	26.0	62	
SCI 1812 FT 561	560	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	3.0	30.0	50	
SCI 1812 FT 681	680	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	3.0	30.0	50	
SCI 1812 FT 821	820	@	0.796 MHZ	J, K	40	@ 0.796 MHZ	2.5	35.0	30	
SCI 1812 FT 102	1000	@	0.252 MHZ	J, K	25	@ 0.252 MHZ	2.5	40.0	30	

Packing Quantity

TYPE	PCS / REEL
SFI 0402	10,000
SFI/SWI 0603	4,000/3,000
SWI 0805	2,000
SWI 1008	2,000
SWI 1210	2,000
SCI 1210	2,000
SCI 1812	500

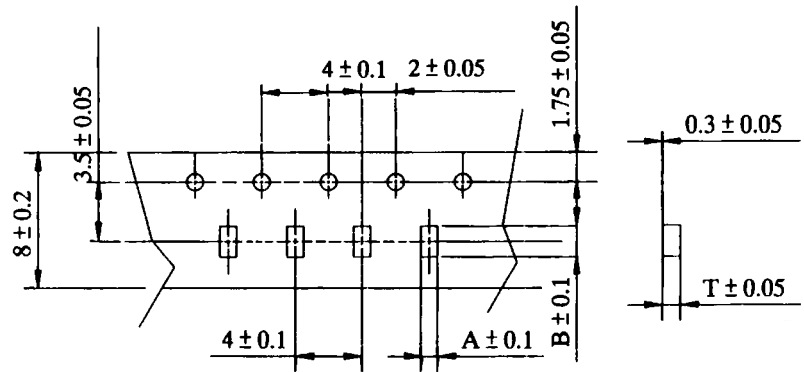
Reel Dimensions



Dimensions (unit: m/m)

TYPE	A	B	T
SFI 0402	0.70	1.20	0.70
SFI 0603	1.00	1.80	1.00
SWI 0603	1.20	1.80	1.20
SWI 0805	1.40	2.30	1.40
SWI 1008	2.20	2.80	1.80
SWI 1210	2.80	3.60	2.40
SCI 1210	2.80	3.60	4.00
SCI 1812	2.80	5.00	4.00

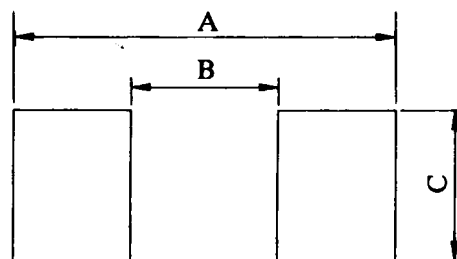
Tape Dimensions



Dimensions (unit: m/m)

TYPE	A	B	C
SFI 0402	1.60	0.50	0.05
SFI 0603	2.10	1.00	0.80
SWI 0603	2.10	1.00	0.80
SWI 0805	2.60	1.20	1.20
SWI 1008	3.80	1.20	1.80
SWI 1210	4.30	2.00	2.20
SCI 1210	4.00	2.00	2.00
SCI 1812	6.00	3.00	2.80

Recommended Pattern



- Remark: 1) Blank length: 200 mm minimum for loading.  
2) Blank length: 160 mm minimum for unloading.



## 1. Scope

This specification applies to fixed inductors of the following types used in electronic equipment :

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 and also for all types of chip beads.

## 2. Construction

Configuration

& Dimension : Please refer to the attached figures and tables.

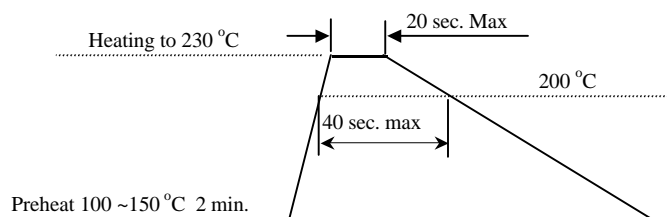
Terminals : SPI series shall consist of copper followed by solder plating.  
SWI series shall consist of MoMn alloy or PdAg alloy followed by Nickel, then Au or solder plating.  
SMI/FBM series shall consist of Ag followed by Nickel, then solder plating.  
SCI/SAI series shall consist of copper wire followed by solder plating.

## 3. Operating Temperature Range

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

Temp. Range : - 40 °C to + 85 °C

## 4. Recommended Soldering Conditions



## 5 Characteristics

### Standard Atmospheric Conditions

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

Ambient Temperature : 25 °C ( 20 °C ) ± 2 °C

Relative Humidity : 60% to 70%

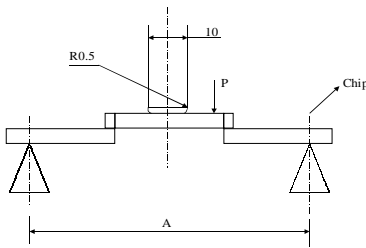
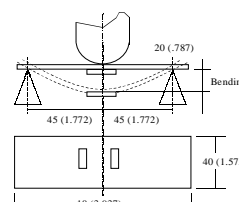
Air Pressure : 86 Kpa to 106 Kpa

**CHIP INDUCTOR  
CHIP BEAD**

## RELIABILITY SPECIFICATION

	ITEM	CONDITION	SPECIFICATION
	Inductance/ Impedance and Tolerance	Measuring Frequency : As shown in Product Table	Within Specified Tolerance
	Quality Factor	Measuring Temperature : + 25 °C	
<b>Electrical Characteristics</b>	Insulation Resistance	Measured at 100V DC between component terminals and center of case.	1000 megaohms minimum
	Dielectric Withstanding Voltage	Measured at 500V AC between component 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 = $\frac{L1 - L2}{L1(T1-T2)} \times 10^6$ (ppm /°C)
	Component Adhesion (Push Test)	Components shall be reflow soldered onto a P. C. Board ( 230 °C ± 5°C for 20 seconds ). Then a dynamometer force gauge shall be applied to any side of the component.	Components must withstand a minimum force of 1 Kg for Pt/Ag termination and 2 Kg for Mo/Mn termination without any failure of the termination to component attachment.
<b>Machemical Characteristics</b>	Drop Test	Components shall be dropped two times on the concrete floor or the vinyl tile from 1M naturally.	Change In Inductance/Impedance: SPL/SWI: Within ± 5% or ± 0.3nH Others: Within ± 20%
	Thermal Shock Test	Each cycle shall consist of 30 minutes at -25 °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 Q: SPL/SWI: Within ± 10% Others: Within ± 30%  Change In Appearance: Without distinct damage

## RELIABILITY SPECIFICATION

	ITEM	CONDITION	SPECIFICATION
<b>Endurance</b> <b>Characteristics</b>	Solderability	Dip pads in flux and then in a solder pot (63Sn / 37Pb) at 230 °C ± 5°C for 5 seconds.	A minimum of 95% of the metalized area must be covered with solder.
	Resistance to Soldering Heat	Dip components into flux and then into a solder pot containing 63Sn / 37Pb at 260 °C ± 5 °C for 5 ± 1 seconds.	Change In L / Z (Inductance / Impedance):  SPI / SWI Series: Within ± 5% or ± 0.3nH Other Series: Within ± 20%  Change In Q: SPI/SWI: Within ± 10% Others: Within ± 30%
	Vibration (Random)	Components 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	Components shall be stored at temperature of -40 °C ± 2 °C for 1000 ± 48 hours. Then components shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	
	High Temperature Storage	Components shall be stored at temperature of +85 °C ± 2 °C for 1000 ± 48 hours. Then components shall be subjected to standard atmospheric conditions for 1 hour. After that, measurement shall be made.	
	Moisture Resistance	Components shall be stored in the chamber at 45 °C at 90 - 95 R. H. for 240 hours. Then components are to be tested after 2 hours at room temperature.	Components shall not have a shorted or open winding.
	High Temperature with Loaded	Components shall be stored in the chamber at +85 °C for 1000 hours with rated current applied. Components shall be tested at the beginning of test at 500 hours and 1000 hours. Then components are to be tested after 1 hour at room temperature.	
	Bending Strength		Components shall not be damaged by the forces conditions applied on the test specified as follows: Chip Size: 0402: >1Kg 0603/0805: >3Kg 1206/1210: >6Kg 1816/1812: >8Kg
Flexure Strength		No Mechanical Damages.	