

Data Sheet

Customer: _____

Product: Wire Wound Chip Inductor (Ferrite) – SCI Series _____

Size : 0402/0603/0805/1008/1210/1812/2220 _____

Issued Date: 16-May-2023 _____

Edition: Ver. 6 _____

Record of change

Date	Ver.	Description	Page
30-Sep.-2014	1		
28-Aug-2015	2	Add new size 1008	4-5
26-Jul.-2016	3	Revised operating & storage temperature range	3
09-Oct.-2019	4	Update size 1812	4-5
05-Jan.-2023	5	Revised Part No.	1
16-May-2023	6	Add size 0402~0805,2220/Revised Parameters updated	1 ~ 17

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16-May-2023	16-May-2023	16-May-2023	
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WIRE WOUND CHIP INDUCTOR (FERRITE) SCI SERIES

■ Introductions

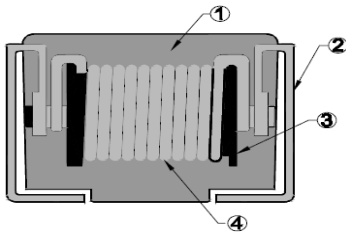
The SCI series are chip inductors widely used in the communication applications and the other electronic devices, such as Micro Televisions, Liquid Crystal Televisions, Video Cameras, Portable VCRs, Car Radios, Car Stereos, Thin Tape Radios, Television Tuners, Mobile Telephones, Radio.

■ Features

- * Very strong solderability by flow soldering, soldering iron or wave soldering
- * Highly accurate dimensions, can be mounted automatically
- * Terminals are highly resistant to pull forces
- * Highly reliable in environments of sudden temperature change and humidity.
Super Q characteristics
- * Moisture sensitivity level 1 (only 1210(H) / 1812(H))

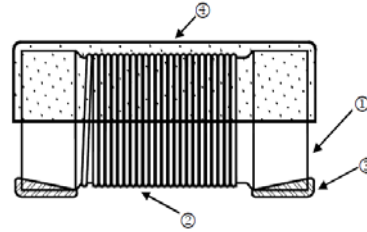
■ Construction

Molding Type



① Molded resin	③ Ferrite core
② Electrode (Tinned Copper Wire)	④ Magnet wire

Open Type



① Ferrite core	③ Electrode (Ag/Pd+Ni+Sn)
② Magnet wire	④ UV Glue

■ Part Numbering

SCI	1210	F	T	1R0	J	□□
SERIES	SIZE	TYPE	PACKAGE	INDUCTANCE	TOLERANCE	INTERNAL CODE
	0402	F= Standard	T= Tape&Reel	010= 0.01uH	J= ±5%	
	0603	H= High Current		R10= 0.1uH	K= ±10%	
	0805			1R0= 1.0uH	M= ±20%	
	1008			330= 33uH		
	1210			331= 330 uH		
	1812			102= 1000uH		
	2220					

■ **Dimensions**

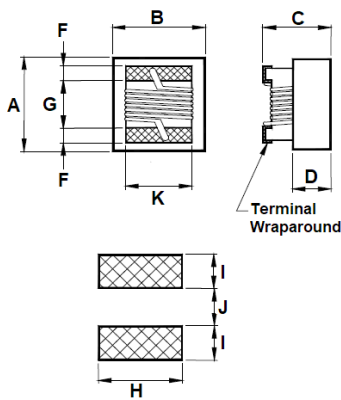


Figure 1

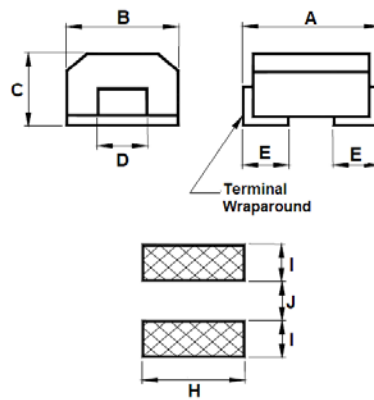


Figure 2

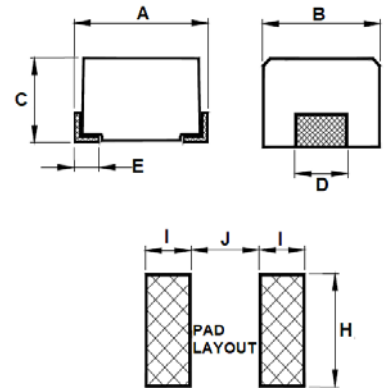


Figure 3

Unit: mm

Size (Inch)	Type	Figure	A	B	C	D	E	F	G	H	I	J	K
0402	F	1	1.02±0.1	0.56±0.1	0.56±0.1	0.25	-	0.23	0.54	0.65	0.38	0.44	0.50
0603	F	1	1.80 max	1.20 max	1.00 max	0.45	-	0.33	0.95	1.02	0.64	0.64	1.05
0805	F	1	2.40 max	1.71 max	1.45 max	0.65	-	0.44	1.02	1.78	1.02	0.76	1.27
1008	F	1	2.92 max	2.79 max	2.10 max	1.20	-	0.45	1.52	2.54	1.02	1.27	2.03
1210	F	2	3.2±0.4	2.5±0.2	2.2±0.2	1.0±0.2	0.6-0/+0.3	-	-	1.40	1.00	1.80	-
1812	F	2	4.5±0.3	3.2±0.2	3.2±0.2	1.20	1.0-0/+0.3	-	-	1.60	1.50	2.20	-
2220	F	3	5.6±0.3	5.0±0.2	4.0±0.3	4.0±0.2	0.7±0.2	-	-	4.50	2.00	4.00	-
0603	H	1	1.80 max	1.20 max	1.10 max	0.45	-	0.33	0.95	1.02	0.64	0.64	1.05
0805	H	1	2.40 max	1.71 max	1.45 max	0.65	-	0.44	1.02	1.78	1.02	0.76	1.27
1008	H	1	2.92 max	2.79 max	2.10 max	1.30	-	0.45	1.52	2.54	1.02	1.27	2.03
1210	H	2	3.2±0.4	2.5±0.2	2.2±0.2	1.0±0.2	0.6-0/+0.3	-	-	1.40	1.00	1.80	-
1812	H	2	4.5±0.3	3.2±0.2	3.2±0.2	1.20	1.0-0/+0.3	-	-	1.60	1.50	2.20	-
2220	H	3	5.6±0.3	5.0±0.2	4.0±0.3	4.0±0.2	0.7±0.2	-	-	4.50	2.00	4.00	-

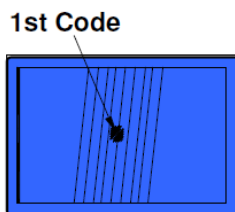
■ **Color Coding**

Size : 0603 / 0805 / 1008 (except 0402)

Because of small sizes, these parts are marked with a single color dot.

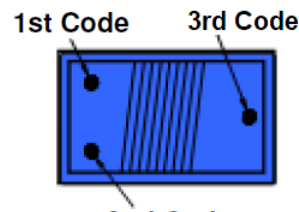
The inductance value represented by the dot is shown on the data page for each type.

0603 / 0805



Color Coding

1008



Color Coding

WIRE WOUND CHIP INDUCTOR (FERRITE) SCI SERIES

■ Size 0402 Open / Standard Type

Part No.	Inductance (uH)	Q Typ.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	I _{rms} (mA) Max.
SCI0402FT018□□□	0.018	10	100	±5, ±10%	2600	0.055	1600
SCI0402FT020□□□	0.020	10	100	±5, ±10%	2600	0.050	1600
SCI0402FT022□□□	0.022	10	100	±10%	2500	0.072	1300
SCI0402FT033□□□	0.033	10	100	±5, ±10%	2300	0.060	1400
SCI0402FT036□□□	0.036	10	100	±5, ±10%	2300	0.092	1000
SCI0402FT039□□□	0.039	10	100	±5, ±10%	2200	0.150	830
SCI0402FT051□□□	0.051	10	100	±10%	1930	0.070	1100
SCI0402FT056□□□	0.056	10	100	±10%	1900	0.125	900
SCI0402FT072□□□	0.072	10	100	±5, ±10%	1650	0.100	900
SCI0402FT078□□□	0.078	10	100	±5, ±10%	1600	0.190	850
SCI0402FTR10□□□	0.10	9	100	±10%	1400	0.160	900
SCI0402FTR14□□□	0.14	11	50	±5, ±10%	1220	0.260	540
SCI0402FTR18□□□	0.18	11	50	±10%	1150	0.330	560
SCI0402FTR20□□□	0.20	11	50	±5, ±10%	1000	0.440	400
SCI0402FTR22□□□	0.22	11	50	±5, ±10%	1150	0.530	380
SCI0402FTR25□□□	0.25	11	25	±5, ±10%	900	0.360	520
SCI0402FTR27□□□	0.27	11	25	±10%	860	0.550	360
SCI0402FTR30□□□	0.30	11	25	±5, ±10%	860	0.410	420
SCI0402FTR33□□□	0.33	11	7.9	±5, ±10%	820	0.680	350
SCI0402FTR36□□□	0.36	11	7.9	±5, ±10%	810	0.575	360
SCI0402FTR39□□□	0.39	11	7.9	±5, ±10%	760	0.890	300
SCI0402FTR42□□□	0.42	11	7.9	±5, ±10%	700	1.100	340
SCI0402FTR47□□□	0.47	11	7.9	±10%	650	0.730	310
SCI0402FTR56□□□	0.56	11	7.9	±5, ±10%	600	1.100	200

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 0603 Open / Standard Type

Part No.	Inductance (uH)	Q Typ.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.	Color Code
SCI0603FTR27□□□	0.27	13	7.9	±10, ±20%	900	0.338	950	Green
SCI0603FTR47□□□	0.47	13	7.9	±10, ±20%	900	0.338	920	Blue
SCI0603FTR68□□□	0.68	13	7.9	±10, ±20%	650	0.351	920	Violet
SCI0603FTR78□□□	0.78	16	7.9	±10, ±20%	410	0.364	920	Gray
SCI0603FT1R0□□□	1.0	16	7.9	±10, ±20%	390	0.416	860	Black
SCI0603FT1R5□□□	1.5	16	7.9	±10, ±20%	160	0.520	720	Brown
SCI0603FT1R8□□□	1.8	16	7.9	±10, ±20%	121	0.559	640	Red
SCI0603FT2R2□□□	2.2	16	7.9	±10, ±20%	103	0.728	600	Orange
SCI0603FT2R7□□□	2.7	16	7.9	±10, ±20%	72	0.806	540	Yellow
SCI0603FT3R3□□□	3.3	16	7.9	±10, ±20%	66	0.910	500	Green
SCI0603FT3R9□□□	3.9	16	7.9	±10, ±20%	61	1.079	460	Blue
SCI0603FT4R7□□□	4.7	16	7.9	±10, ±20%	51	1.261	400	Violet
SCI0603FT5R6□□□	5.6	16	7.9	±10, ±20%	47	1.430	380	Gray
SCI0603FT6R8□□□	6.8	16	7.9	±10, ±20%	43	1.950	340	White
SCI0603FT8R2□□□	8.2	16	7.9	±10, ±20%	40	2.184	300	Black
SCI0603FT100□□□	10	14	2.5	±10, ±20%	36	2.405	280	Brown
SCI0603FT120□□□	12	14	2.5	±10, ±20%	32	2.964	260	Red
SCI0603FT150□□□	15	14	2.5	±10, ±20%	29	3.380	240	Orange
SCI0603FT180□□□	18	14	2.5	±10, ±20%	28	3.770	220	Yellow
SCI0603FT220□□□	22	14	2.5	±10, ±20%	24	4.693	200	Green
SCI0603FT270□□□	27	14	2.5	±10, ±20%	20	6.760	140	Blue
SCI0603FT330□□□	33	14	2.5	±10, ±20%	15	8.580	120	Violet
SCI0603FT470□□□	47	12	2.5	±10, ±20%	11	14.560	100	Gray

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 0805 Open / Standard Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	Color Code
SCI0805FT078□□□	0.078	13	7.9	±5, ±10%	1500	0.076	2000	Gray
SCI0805FTR10□□□	0.10	20	25	±10%	1400	0.10	1700	White
SCI0805FTR11□□□	0.11	25	25	±10%	1200	0.10	1700	White
SCI0805FTR12□□□	0.12	25	25	±5, ±10%	1000	0.18	1500	Violet
SCI0805FTR15□□□	0.15	25	25	±5, ±10%	1000	0.18	1400	Gray
SCI0805FTR18□□□	0.18	30	25	±5, ±10%	1000	0.20	1400	Black
SCI0805FTR22□□□	0.22	30	25	±5, ±10%	830	0.25	1350	Brown
SCI0805FTR27□□□	0.27	30	25	±5, ±10%	800	0.38	1300	Red
SCI0805FTR33□□□	0.33	30	25	±5, ±10%	750	0.35	1200	Orange
SCI0805FTR39□□□	0.39	30	25	±5, ±10%	700	0.35	1160	Yellow
SCI0805FTR47□□□	0.47	30	25	±5, ±10%	690	0.40	1100	Green
SCI0805FTR56□□□	0.56	30	25	±5, ±10%	640	0.40	1040	Blue
SCI0805FTR62□□□	0.62	30	25	±5, ±10%	640	0.45	980	Brown
SCI0805FTR68□□□	0.68	30	25	±5, ±10%	510	0.50	900	Violet
SCI0805FTR75□□□	0.75	30	25	±5, ±10%	500	0.50	900	Violet
SCI0805FTR82□□□	0.82	30	25	±5, ±10%	500	0.50	900	Gray
SCI0805FTR91□□□	0.91	30	25	±5, ±10%	500	0.55	900	Yellow
SCI0805FT1R0□□□	1.0	20	7.9	±5, ±10%	470	0.50	840	White
SCI0805FT1R2□□□	1.2	20	7.9	±5, ±10%	400	0.75	800	Black
SCI0805FT1R5□□□	1.5	25	7.9	±5, ±10%	400	1.00	720	Brown
SCI0805FT1R8□□□	1.8	25	7.9	±5, ±10%	230	1.00	660	Red
SCI0805FT2R2□□□	2.2	25	7.9	±5, ±10%	200	1.05	600	Orange
SCI0805FT2R7□□□	2.7	25	7.9	±5, ±10%	130	1.18	500	Yellow
SCI0805FT3R3□□□	3.3	25	7.9	±5, ±10%	160	1.26	480	Green
SCI0805FT3R9□□□	3.9	25	7.9	±5, ±10%	130	1.75	440	Blue
SCI0805FT4R7□□□	4.7	25	7.9	±5, ±10%	120	1.87	390	Violet
SCI0805FT5R6□□□	5.6	25	7.9	±5, ±10%	90	2.00	340	Gray
SCI0805FT6R8□□□	6.8	25	7.9	±5, ±10%	55	2.15	300	White
SCI0805FT8R2□□□	8.2	25	7.9	±5, ±10%	40	2.37	280	Black
SCI0805FT100□□□	10	16	2.5	±5, ±10%	40	2.55	260	Brown
SCI0805FT120□□□	12	16	2.5	±5, ±10%	37	2.80	220	Red
SCI0805FT150□□□	15	16	2.5	±5, ±10%	30	3.80	200	Orange
SCI0805FT180□□□	18	16	2.5	±5, ±10%	23	4.48	180	Yellow
SCI0805FT220□□□	22	16	2.5	±5, ±10%	20	6.30	160	Green
SCI0805FT270□□□	27	16	2.5	±5, ±10%	19	6.85	140	Blue
SCI0805FT330□□□	33	16	2.5	±5, ±10%	18	7.60	120	Violet
SCI0805FT390□□□	39	15	2.5	±5, ±10%	16	8.20	100	Gray
SCI0805FT470□□□	47	13	2.5	±5, ±10%	13	13.10	60	White

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 1008 Open / Standard Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	Color Code		
								1st	2nd	3rd
SCI1008FTR10□□□	0.10	25	25	±10%	930	0.20	1300	Brown	Black	Brown
SCI1008FTR12□□□	0.12	26	25	±5, ±10%	930	0.30	1000	Brown	Red	Brown
SCI1008FTR15□□□	0.15	26	25	±5, ±10%	930	0.30	1000	Brown	Green	Brown
SCI1008FTR18□□□	0.18	30	25	±5, ±10%	930	0.30	960	Brown	Gray	Brown
SCI1008FTR20□□□	0.20	30	25	±5, ±10%	735	0.30	960	Red	Black	Brown
SCI1008FTR22□□□	0.22	27	25	±5, ±10%	750	0.40	880	Red	Red	Brown
SCI1008FTR27□□□	0.27	29	25	±5, ±10%	700	0.42	900	Red	Violet	Brown
SCI1008FTR33□□□	0.33	30	25	±5, ±10%	600	0.42	900	Orange	Orange	Brown
SCI1008FTR39□□□	0.39	30	25	±5, ±10%	480	0.45	920	Orange	White	Brown
SCI1008FTR47□□□	0.47	30	25	±5, ±10%	470	0.50	920	Yellow	Violet	Brown
SCI1008FTR56□□□	0.56	30	25	±5, ±10%	460	0.55	900	Green	Blue	Brown
SCI1008FTR62□□□	0.62	30	25	±5, ±10%	460	0.55	900	Blue	Red	Brown
SCI1008FTR68□□□	0.68	30	25	±5, ±10%	420	0.55	880	Blue	Gray	Brown
SCI1008FTR75□□□	0.75	30	25	±5, ±10%	420	0.65	880	Violet	Green	Brown
SCI1008FTR82□□□	0.82	30	25	±5, ±10%	380	0.65	840	Gray	Red	Brown
SCI1008FTR91□□□	0.91	30	25	±5, ±10%	400	0.65	840	White	Brown	Brown
SCI1008FT1R0□□□	1.0	25	7.9	±5, ±10%	300	0.60	800	Brown	Black	Red
SCI1008FT1R2□□□	1.2	25	7.9	±5, ±10%	280	0.74	800	Brown	Red	Red
SCI1008FT1R5□□□	1.5	25	7.9	±5, ±10%	245	0.85	780	Brown	Green	Red
SCI1008FT1R8□□□	1.8	25	7.9	±5, ±10%	240	0.92	780	Brown	Gray	Red
SCI1008FT2R2□□□	2.2	25	7.9	±5, ±10%	205	1.10	760	Red	Red	Red
SCI1008FT2R7□□□	2.7	25	7.9	±5, ±10%	187	1.22	760	Red	Violet	Red
SCI1008FT3R3□□□	3.3	25	7.9	±5, ±10%	165	1.37	740	Orange	Orange	Red
SCI1008FT3R9□□□	3.9	25	7.9	±5, ±10%	144	1.66	700	Orange	White	Red
SCI1008FT4R7□□□	4.7	25	7.9	±5, ±10%	110	1.68	660	Yellow	Violet	Red
SCI1008FT5R6□□□	5.6	25	7.9	±5, ±10%	88	1.75	640	Green	Blue	Red
SCI1008FT6R8□□□	6.8	25	7.9	±5, ±10%	70	1.85	640	Blue	Gray	Red
SCI1008FT8R2□□□	8.2	25	7.9	±5, ±10%	57	2.00	600	Gray	Red	Red
SCI1008FT100□□□	10	25	7.9	±5, ±10%	55	2.32	600	Brown	Black	Orange
SCI1008FT120□□□	12	15	2.5	±5, ±10%	52	2.99	560	Brown	Red	Orange
SCI1008FT150□□□	15	15	2.5	±5, ±10%	49	3.42	480	Brown	Green	Orange
SCI1008FT180□□□	18	15	2.5	±5, ±10%	48	4.65	420	Brown	Gray	Orange
SCI1008FT220□□□	22	15	2.5	±5, ±10%	25	5.12	420	Red	Red	Orange
SCI1008FT270□□□	27	15	2.5	±5, ±10%	23	5.76	420	Red	Violet	Orange
SCI1008FT330□□□	33	15	2.5	±5, ±10%	17	6.44	400	Orange	Orange	Orange
SCI1008FT390□□□	39	15	2.5	±5, ±10%	15	6.85	380	Orange	White	Orange
SCI1008FT470□□□	47	14	2.5	±5, ±10%	13	9.94	260	Yellow	Violet	Orange
SCI1008FT560□□□	56	14	2.5	±5, ±10%	10	10.7	280	Green	Blue	Orange
SCI1008FT680□□□	68	14	2.5	±5, ±10%	8	12.8	260	Blue	Gray	Orange
SCI1008FT820□□□	82	14	2.5	±5, ±10%	8	18.3	240	Gray	Red	Orange
SCI1008FT101□□□	100	8	1	±5, ±10%	7	19.6	200	Brown	Black	Yellow

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 1210 Molding / Standard Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.
SCI1210FTR18□□□	0.18	30	25.2	±20%	685	0.28	450
SCI1210FTR22□□□	0.22	30	25.2	±20%	560	0.32	450
SCI1210FTR27□□□	0.27	30	25.2	±20%	525	0.36	450
SCI1210FTR33□□□	0.33	30	25.2	±20%	520	0.40	450
SCI1210FTR39□□□	0.39	30	25.2	±20%	470	0.45	450
SCI1210FTR47□□□	0.47	30	25.2	±20%	430	0.50	450
SCI1210FTR56□□□	0.56	30	25.2	±20%	395	0.55	450
SCI1210FTR68□□□	0.68	30	25.2	±20%	370	0.60	450
SCI1210FTR82□□□	0.82	30	25.2	±20%	310	0.65	450
SCI1210FT1R0□□□	1.0	30	7.96	±5%,±10%	295	0.70	400
SCI1210FT1R2□□□	1.2	30	7.96	±5%,±10%	255	0.75	390
SCI1210FT1R5□□□	1.5	30	7.96	±5%,±10%	160	0.85	370
SCI1210FT1R8□□□	1.8	30	7.96	±5%,±10%	125	0.90	350
SCI1210FT2R2□□□	2.2	30	7.96	±5%,±10%	100	1.00	320
SCI1210FT2R7□□□	2.7	30	7.96	±5%,±10%	65	1.10	290
SCI1210FT3R3□□□	3.3	30	7.96	±5%,±10%	55	1.20	260
SCI1210FT3R9□□□	3.9	30	7.96	±5%,±10%	50	1.30	250
SCI1210FT4R7□□□	4.7	30	7.96	±5%,±10%	45	1.50	220
SCI1210FT5R6□□□	5.6	30	7.96	±5%,±10%	40	1.60	200
SCI1210FT6R8□□□	6.8	30	7.96	±5%,±10%	35	1.80	180
SCI1210FT8R2□□□	8.2	30	7.96	±5%,±10%	30	2.00	170
SCI1210FT100□□□	10	30	2.52	±5%,±10%	30	2.10	150
SCI1210FT120□□□	12	30	2.52	±5%,±10%	28	2.50	140
SCI1210FT150□□□	15	30	2.52	±5%,±10%	25	2.80	130
SCI1210FT180□□□	18	30	2.52	±5%,±10%	22	3.30	120
SCI1210FT220□□□	22	30	2.52	±5%,±10%	19	3.70	110
SCI1210FT270□□□	27	30	2.52	±5%,±10%	18	5.00	80
SCI1210FT330□□□	33	30	2.52	±5%,±10%	17	5.60	70
SCI1210FT390□□□	39	30	2.52	±5%,±10%	15	6.40	65
SCI1210FT470□□□	47	30	2.52	±5%,±10%	14	7.00	60
SCI1210FT560□□□	56	30	2.52	±5%,±10%	13	8.00	55
SCI1210FT680□□□	68	30	2.52	±5%,±10%	11	9.00	50
SCI1210FT820□□□	82	30	2.52	±5%,±10%	10	10.00	45
SCI1210FT101□□□	100	20	0.796	±5%,±10%	9	10.00	40
SCI1210FT121□□□	120	20	0.796	±5%,±10%	8	11.00	70
SCI1210FT151□□□	150	20	0.796	±5%,±10%	7	15.00	65

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

Size 1812 Molding / Standard Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.
SCI1812FTR18□□□	0.18	35	25.2	±20%	570.0	0.24	700
SCI1812FTR22□□□	0.22	40	25.2	±20%	505.0	0.25	665
SCI1812FTR27□□□	0.27	40	25.2	±20%	450.0	0.26	635
SCI1812FTR33□□□	0.33	40	25.2	±20%	425.0	0.28	605
SCI1812FTR39□□□	0.39	40	25.2	±20%	390.0	0.30	575
SCI1812FTR47□□□	0.47	40	25.2	±20%	350.0	0.32	545
SCI1812FTR56□□□	0.56	40	25.2	±20%	325.0	0.36	520
SCI1812FTR68□□□	0.68	40	25.2	±20%	300.0	0.40	500
SCI1812FTR82□□□	0.82	40	25.2	±20%	275.0	0.45	475
SCI1812FT1R0□□□	1.0	50	7.96	±5%,±10%	250.0	0.50	450
SCI1812FT1R2□□□	1.2	50	7.96	±5%,±10%	240.0	0.55	430
SCI1812FT1R5□□□	1.5	50	7.96	±5%,±10%	210.0	0.60	410
SCI1812FT1R8□□□	1.8	50	7.96	±5%,±10%	190.0	0.65	390
SCI1812FT2R2□□□	2.2	50	7.96	±5%,±10%	160.0	0.70	380
SCI1812FT2R7□□□	2.7	50	7.96	±5%,±10%	150.0	0.75	370
SCI1812FT3R3□□□	3.3	50	7.96	±5%,±10%	110.0	0.80	355
SCI1812FT3R9□□□	3.9	50	7.96	±5%,±10%	100.0	0.90	330
SCI1812FT4R7□□□	4.7	50	7.96	±5%,±10%	80.0	1.00	315
SCI1812FT5R6□□□	5.6	50	7.96	±5%,±10%	50.0	1.10	300
SCI1812FT6R8□□□	6.8	50	7.96	±5%,±10%	35.0	1.20	285
SCI1812FT8R2□□□	8.2	50	7.96	±5%,±10%	28.0	1.40	270
SCI1812FT100□□□	10	50	2.52	±5%,±10%	22.0	1.60	250
SCI1812FT120□□□	12	50	2.52	±5%,±10%	20.0	2.00	225
SCI1812FT150□□□	15	50	2.52	±5%,±10%	18.0	2.50	200
SCI1812FT180□□□	18	50	2.52	±5%,±10%	16.0	2.80	190
SCI1812FT220□□□	22	50	2.52	±5%,±10%	14.0	3.20	180
SCI1812FT270□□□	27	50	2.52	±5%,±10%	13.0	3.60	170
SCI1812FT330□□□	33	50	2.52	±5%,±10%	12.0	4.00	160
SCI1812FT390□□□	39	50	2.52	±5%,±10%	11.0	4.50	150
SCI1812FT470□□□	47	50	2.52	±5%,±10%	10.5	5.00	140
SCI1812FT560□□□	56	50	2.52	±5%,±10%	10.0	5.50	135
SCI1812FT680□□□	68	50	2.52	±5%,±10%	9.5	6.00	130
SCI1812FT820□□□	82	50	2.52	±5%,±10%	8.5	7.00	120
SCI1812FT101□□□	100	40	0.796	±5%,±10%	8.0	8.00	110
SCI1812FT121□□□	120	40	0.796	±5%,±10%	7.0	8.00	110
SCI1812FT151□□□	150	40	0.796	±5%,±10%	6.0	9.00	105
SCI1812FT181□□□	180	40	0.796	±5%,±10%	5.5	9.50	102
SCI1812FT221□□□	220	40	0.796	±5%,±10%	5.0	10.0	100
SCI1812FT271□□□	270	40	0.796	±5%,±10%	4.5	12.0	92
SCI1812FT331□□□	330	40	0.796	±5%,±10%	4.0	14.0	85
SCI1812FT391□□□	390	40	0.796	±5%,±10%	3.5	18.0	80
SCI1812FT471□□□	470	40	0.796	±5%,±10%	3.5	26.0	62
SCI1812FT561□□□	560	30	0.796	±5%,±10%	3.0	30.0	50
SCI1812FT681□□□	680	30	0.796	±5%,±10%	3.0	30.0	50
SCI1812FT821□□□	820	30	0.796	±5%,±10%	2.5	35.0	30

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 2220 Molding / Standard Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.
SCI2220FT1R2□□□	1.2	20	0.252	±5, ±10%	1.5	17	75
SCI2220FT1R5□□□	1.5	20	0.252	±5, ±10%	1.4	20	70
SCI2220FT1R8□□□	1.8	20	0.252	±5, ±10%	1.3	30	60
SCI2220FT2R2□□□	2.2	20	0.252	±5, ±10%	1.2	35	55
SCI2220FT2R7□□□	2.7	20	0.252	±5, ±10%	1.1	55	45
SCI2220FT3R3□□□	3.3	20	0.252	±5, ±10%	1.0	60	40
SCI2220FT3R9□□□	3.9	20	0.252	±5, ±10%	1.0	70	38
SCI2220FT4R7□□□	4.7	20	0.252	±5, ±10%	0.9	78	36
SCI2220FT5R6□□□	5.6	20	0.252	±5, ±10%	0.8	85	33
SCI2220FT6R8□□□	6.8	20	0.252	±5, ±10%	0.7	110	30
SCI2220FT8R2□□□	8.2	20	0.252	±5, ±10%	0.6	125	28
SCI2220FT100□□□	10	15	0.0796	±5, ±10%	0.5	150	25

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 0603 Open / High Current Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	Color Code
SCI0603HT047□□□	0.047	12	7.9	±10%	2000	0.075	1800	White
SCI0603HT051□□□	0.051	12	7.9	±10%	1500	0.075	1800	Violet
SCI0603HT056□□□	0.056	7	7.9	±10%	1500	0.095	2200	Blue
SCI0603HT068□□□	0.068	10	7.9	±10%	1500	0.12	2200	Gray
SCI0603HT072□□□	0.072	12	7.9	±10%	1500	0.12	2200	Brown
SCI0603HTR10□□□	0.10	12	7.9	±10%	1150	0.13	2200	Black
SCI0603HTR12□□□	0.12	12	7.9	±5, ±10%	1100	0.15	1900	Orange
SCI0603HTR15□□□	0.15	15	7.9	±5, ±10%	1050	0.15	1800	Brown
SCI0603HTR18□□□	0.18	15	7.9	±5, ±10%	950	0.15	1800	Green
SCI0603HTR22□□□	0.22	15	7.9	±5, ±10%	900	0.30	1300	Red
SCI0603HTR24□□□	0.24	15	7.9	±5, ±10%	850	0.16	1700	Green
SCI0603HTR27□□□	0.27	15	7.9	±5, ±10%	835	0.30	1400	Yellow
SCI0603HTR33□□□	0.33	15	7.9	±5, ±10%	725	0.40	1300	Orange
SCI0603HTR36□□□	0.36	15	7.9	±5, ±10%	720	0.41	1300	Green
SCI0603HTR39□□□	0.39	15	7.9	±5, ±10%	680	0.41	1200	Blue
SCI0603HTR47□□□	0.47	15	7.9	±5, ±10%	640	0.43	1200	Black
SCI0603HTR56□□□	0.56	15	7.9	±5, ±10%	630	0.44	1200	Brown
SCI0603HTR65□□□	0.65	15	7.9	±5, ±10%	510	0.52	1000	Blue
SCI0603HTR68□□□	0.68	15	7.9	±5, ±10%	510	0.52	1000	Red
SCI0603HTR78□□□	0.78	15	7.9	±5, ±10%	465	0.63	990	Orange
SCI0603HTR82□□□	0.82	15	7.9	±5, ±10%	460	0.69	990	Yellow
SCI0603HTR90□□□	0.90	15	7.9	±5, ±10%	350	0.81	950	Black
SCI0603HT1R0□□□	1.0	15	7.9	±5, ±10%	320	0.81	850	Green
SCI0603HT1R2□□□	1.2	15	7.9	±5, ±10%	270	0.87	850	Blue
SCI0603HT1R5□□□	1.5	15	7.9	±5, ±10%	230	0.96	830	Violet
SCI0603HT1R8□□□	1.8	15	7.9	±5, ±10%	210	1.10	820	Gray
SCI0603HT2R2□□□	2.2	15	7.9	±5, ±10%	115	1.20	720	White
SCI0603HT2R7□□□	2.7	15	7.9	±5, ±10%	100	1.38	700	Black
SCI0603HT3R0□□□	3.0	15	7.9	±5, ±10%	90	1.45	680	Black
SCI0603HT3R3□□□	3.3	15	7.9	±5, ±10%	84	1.50	640	Brown
SCI0603HT3R9□□□	3.9	15	7.9	±5, ±10%	75	1.50	630	Red
SCI0603HT4R7□□□	4.7	15	7.9	±5, ±10%	67	2.10	530	Orange
SCI0603HT5R6□□□	5.6	15	7.9	±5, ±10%	55	2.37	510	Yellow
SCI0603HT6R8□□□	6.8	15	7.9	±5, ±10%	48	3.10	490	Green
SCI0603HT7R8□□□	7.8	15	7.9	±5, ±10%	40	3.35	420	Blue
SCI0603HT8R2□□□	8.2	15	7.9	±5, ±10%	38	3.50	450	Violet
SCI0603HT100□□□	10	15	7.9	±5, ±10%	32	4.46	370	Gray
SCI0603HT150□□□	15	14	7.9	±5, ±10%	25	9.50	240	White

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

Size 0805 Open / High Current Type

Part No.	Inductance (uH)	Q typ.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.	Color Code
SCI0805HTR10□□□	0.10	9	7.9	±10, ±20%	1700	0.091	2400	Black
SCI0805HTR15□□□	0.15	12	7.9	±10, ±20%	1500	0.104	1900	Brown
SCI0805HTR22□□□	0.22	12	7.9	±10, ±20%	1200	0.130	1700	Red
SCI0805HTR33□□□	0.33	12	7.9	±10, ±20%	900	0.156	1400	Orange
SCI0805HTR47□□□	0.47	14	7.9	±10, ±20%	850	0.156	1400	Blue
SCI0805HTR56□□□	0.56	14	7.9	±10, ±20%	360	0.195	1200	Violet
SCI0805HTR68□□□	0.68	14	7.9	±10, ±20%	290	0.195	1200	Gray
SCI0805HTR82□□□	0.82	14	7.9	±10, ±20%	208	0.195	1100	White
SCI0805HT1R0□□□	1.00	14	7.9	±10, ±20%	208	0.169	1100	Black
SCI0805HT1R2□□□	1.20	14	7.9	±10, ±20%	159	0.208	960	Red
SCI0805HT1R5□□□	1.50	14	7.9	±10, ±20%	159	0.221	920	Brown
SCI0805HT1R8□□□	1.80	14	7.9	±10, ±20%	112	0.260	860	Orange
SCI0805HT2R8□□□	2.20	13	7.9	±10, ±20%	87	0.286	740	Red
SCI0805HT2R7□□□	2.70	13	7.9	±10, ±20%	72	0.325	680	Yellow
SCI0805HT3R3□□□	3.30	12	7.9	±10, ±20%	70	0.364	620	Orange
SCI0805HT3R9□□□	3.90	14	7.9	±10, ±20%	61	0.494	580	Green
SCI0805HT4R7□□□	4.70	14	7.9	±10, ±20%	51	0.559	520	Yellow
SCI0805HT5R6□□□	5.60	12	7.9	±10, ±20%	47	0.650	480	Blue
SCI0805HT6R8□□□	6.80	14	7.9	±10, ±20%	46	0.884	420	Green
SCI0805HT8R2□□□	8.20	13	7.9	±10, ±20%	33	0.949	400	Violet
SCI0805HT100□□□	10	14	2.5	±5, ±10, ±20%	31	1.105	360	Blue
SCI0805HT120□□□	12	14	2.5	±5, ±10, ±20%	30	1.17	340	Gray
SCI0805HT150□□□	15	15	2.5	±5, ±10, ±20%	28	1.82	300	Violet
SCI0805HT180□□□	18	15	2.5	±5, ±10, ±20%	27	2.01	280	White
SCI0805HT220□□□	22	15	2.5	±5, ±10, ±20%	20	2.288	240	Gray
SCI0805HT270□□□	27	15	2.5	±5, ±10, ±20%	17	2.60	220	Black
SCI0805HT330□□□	33	15	2.5	±5, ±10, ±20%	17	3.055	200	White
SCI0805HT390□□□	39	14	2.5	±5, ±10, ±20%	15	4.355	180	Brown
SCI0805HT470□□□	47	14	2.5	±5, ±10, ±20%	15	4.42	160	Black
SCI0805HT560□□□	56	14	2.5	±5, ±10, ±20%	10	5.746	150	Yellow
SCI0805HT680□□□	68	14	2.5	±5, ±10, ±20%	10	5.785	140	Brown
SCI0805HT820□□□	82	14	2.5	±5, ±10, ±20%	10	9.75	100	Orange
SCI0805HT101□□□	100	10	1	±5, ±10, ±20%	9	9.75	100	Red
SCI0805HT221□□□	220	8	1	±5, ±10, ±20%	4	30.03	70	Blue

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 1008 Open / High Current Type

Part No.	Inductance (uH)	Q typ.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.	Color Code		
								1st	2nd	3rd
SCI1008HT078□□□	0.078	19	7.9	±5, ±10%	1000	0.042	3200	Black	Violet	Gray
SCI1008HTR10□□□	0.10	35	25	±5, ±10%	1500	0.05	3200	Brown	Red	Brown
SCI1008HTR22□□□	0.22	35	25	±5, ±10%	800	0.15	2900	Red	Red	Brown
SCI1008HTR39□□□	0.39	35	25	±5, ±10%	460	0.20	2100	Orange	White	Brown
SCI1008HTR47□□□	0.47	35	25	±10%	460	0.20	2100	Yellow	Violet	Brown
SCI1008HTR56□□□	0.56	35	25	±5, ±10%	360	0.26	1800	Green	Blue	Brown
SCI1008HTR68□□□	0.68	35	25	±5, ±10%	400	0.30	1700	Blue	Gray	Brown
SCI1008HTR82□□□	0.82	35	25	±5, ±10%	360	0.35	1400	Gray	Red	Brown
SCI1008HT1R0□□□	1.0	32	7.9	±10%	340	0.34	1700	Brown	Black	Red
SCI1008HT1R1□□□	1.1	25	7.9	±10%	300	0.34	1500	Brown	Brown	Red
SCI1008HT1R2□□□	1.2	25	7.9	±5, ±10%	300	0.25	1600	Brown	Red	Red
SCI1008HT1R5□□□	1.5	32	7.9	±5, ±10%	230	0.42	1200	Brown	Green	Red
SCI1008HT1R8□□□	1.8	27	7.9	±5, ±10%	180	0.45	1100	Brown	Gray	Red
SCI1008HT2R2□□□	2.2	27	7.9	±5, ±10%	140	0.50	1100	Red	Red	Red
SCI1008HT2R7□□□	2.7	27	7.9	±5, ±10%	130	0.55	1000	Red	Violet	Red
SCI1008HT3R3□□□	3.3	27	7.9	±5, ±10%	125	0.60	1000	Orange	Orange	Red
SCI1008HT3R9□□□	3.9	27	7.9	±5, ±10%	100	0.80	990	Orange	White	Red
SCI1008HT4R7□□□	4.7	30	7.9	±5, ±10%	90	0.90	880	Yellow	Violet	Red
SCI1008HT5R6□□□	5.6	27	7.9	±5, ±10%	60	1.00	850	Green	Blue	Red
SCI1008HT6R8□□□	6.8	27	7.9	±5, ±10%	60	1.05	840	Blue	Gray	Red
SCI1008HT8R2□□□	8.2	25	7.9	±5, ±10%	55	1.20	810	Gray	Red	Red
SCI1008HT100□□□	10	23	2.5	±5, ±10%	55	1.55	700	Brown	Black	Orange
SCI1008HT120□□□	12	23	2.5	±5, ±10%	36	2.10	580	Brown	Red	Orange
SCI1008HT150□□□	15	23	2.5	±5, ±10%	36	2.38	580	Brown	Green	Orange
SCI1008HT180□□□	18	23	2.5	±5, ±10%	32	2.50	520	Brown	Gray	Orange
SCI1008HT220□□□	22	23	2.5	±5, ±10%	29	2.92	500	Red	Red	Orange
SCI1008HT270□□□	27	23	2.5	±10%	22	3.70	450	Red	Violet	Orange
SCI1008HT330□□□	33	23	2.5	±5, ±10%	21	4.10	420	Orange	Orange	Orange
SCI1008HT390□□□	39	18	2.5	±5, ±10%	15	5.50	340	Orange	White	Orange
SCI1008HT470□□□	47	23	2.5	±5, ±10%	17	7.80	310	Yellow	Violet	Orange
SCI1008HT680□□□	68	20	2.5	±5, ±10%	9	11.5	220	Blue	Gray	Orange
SCI1008HT101□□□	100	13	1	±5, ±10%	4	13.2	210	Brown	Black	Yellow
SCI1008HT151□□□	150	13	1	±5, ±10%	3	22.5	170	Brown	Green	Yellow
SCI1008HT221□□□	220	13	1	±5, ±10%	3	26.5	160	Red	Red	Yellow
SCI1008HT271□□□	270	13	1	±5, ±10%	2	32.0	135	Red	Violet	Yellow
SCI1008HT331□□□	330	13	1	±5, ±10%	2	32.5	130	Orange	Orange	Yellow

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

Size 1210 Molding / High Current Type

Part No.	Inductance (μ H)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.
SCI1210HT1R0□□□	1.0	10	7.96	$\pm 5\%, \pm 20\%$	145	0.156	770
SCI1210HT1R5□□□	1.5	10	7.96	$\pm 5\%, \pm 20\%$	100	0.195	580
SCI1210HT2R2□□□	2.2	10	7.96	$\pm 5\%, \pm 20\%$	80	0.260	480
SCI1210HT3R3□□□	3.3	10	7.96	$\pm 5\%, \pm 20\%$	60	0.325	400
SCI1210HT4R7□□□	4.7	10	7.96	$\pm 5\%, \pm 20\%$	50	0.520	320
SCI1210HT6R8□□□	6.8	10	7.96	$\pm 5\%, \pm 20\%$	40	0.650	280
SCI1210HT100□□□	10	15	2.52	$\pm 5\%, \pm 10\%$	30	1.105	220
SCI1210HT150□□□	15	15	2.52	$\pm 5\%, \pm 10\%$	27	1.690	180
SCI1210HT220□□□	22	15	2.52	$\pm 5\%, \pm 10\%$	22	2.600	145
SCI1210HT270□□□	27	15	2.52	$\pm 5\%, \pm 10\%$	19	3.000	125
SCI1210HT330□□□	33	15	2.52	$\pm 5\%, \pm 10\%$	17	3.640	115
SCI1210HT470□□□	47	20	2.52	$\pm 5\%, \pm 10\%$	15	5.460	105
SCI1210HT680□□□	68	20	2.52	$\pm 5\%, \pm 10\%$	11	8.450	85
SCI1210HT820□□□	82	20	2.52	$\pm 5\%, \pm 10\%$	10	8.710	80
SCI1210HT101□□□	100	20	0.796	$\pm 5\%, \pm 10\%$	9	10.140	75

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 1812 Molding / High Current Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) typ.	DCR (Ω) Max.	IDC (mA) Max.
SCI1812HT1R0□□□	1.0	10	7.96	±5%,±10%	265	0.11	1050
SCI1812HT1R2□□□	1.2	10	7.96	±5%,±10%	180	0.12	1000
SCI1812HT1R5□□□	1.5	10	7.96	±5%,±10%	170	0.15	950
SCI1812HT1R8□□□	1.8	10	7.96	±5%,±10%	105	0.16	900
SCI1812HT2R2□□□	2.2	10	7.96	±5%,±10%	80	0.18	850
SCI1812HT2R7□□□	2.7	10	7.96	±5%,±10%	60	0.20	800
SCI1812HT3R3□□□	3.3	10	7.96	±5%,±10%	55	0.22	750
SCI1812HT3R9□□□	3.9	10	7.96	±5%,±10%	45	0.24	700
SCI1812HT4R7□□□	4.7	10	7.96	±5%,±10%	43	0.27	650
SCI1812HT5R6□□□	5.6	10	7.96	±5%,±10%	40	0.30	650
SCI1812HT6R8□□□	6.8	10	7.96	±5%,±10%	35	0.35	600
SCI1812HT8R2□□□	8.2	10	7.96	±5%,±10%	30	0.40	600
SCI1812HT100□□□	10	10	2.52	±5%,±10%	27	0.50	550
SCI1812HT120□□□	12	10	2.52	±5%,±10%	25	0.60	500
SCI1812HT150□□□	15	10	2.52	±5%,±10%	20	0.70	450
SCI1812HT180□□□	18	10	2.52	±5%,±10%	19	0.80	400
SCI1812HT220□□□	22	10	2.52	±5%,±10%	18	0.90	370
SCI1812HT270□□□	27	10	2.52	±5%,±10%	16	1.20	330
SCI1812HT330□□□	33	10	2.52	±5%,±10%	15	1.40	300
SCI1812HT390□□□	39	10	2.52	±5%,±10%	13	1.60	280
SCI1812HT470□□□	47	10	2.52	±5%,±10%	12	1.90	260
SCI1812HT560□□□	56	10	2.52	±5%,±10%	10	2.20	240
SCI1812HT680□□□	68	10	2.52	±5%,±10%	9.5	2.60	220
SCI1812HT820□□□	82	10	2.52	±5%,±10%	8.5	3.50	200
SCI1812HT101□□□	100	20	0.796	±5%,±10%	8.0	4.00	180
SCI1812HT121□□□	120	20	0.796	±5%,±10%	7.0	4.50	160
SCI1812HT151□□□	150	20	0.796	±5%,±10%	6.5	6.50	140
SCI1812HT181□□□	180	20	0.796	±5%,±10%	6.0	7.50	120
SCI1812HT221□□□	220	20	0.796	±5%,±10%	5.5	9.00	120
SCI1812HT271□□□	270	20	0.796	±5%,±10%	5.0	11.0	100
SCI1812HT331□□□	330	20	0.796	±5%,±10%	4.5	13.0	90
SCI1812HT391□□□	390	20	0.796	±5%,±10%	4.0	14.0	85
SCI1812HT471□□□	470	20	0.796	±5%,±10%	3.5	16.0	75
SCI1812HT561□□□	560	20	0.796	±5%,±10%	3.0	21.0	70
SCI1812HT681□□□	680	20	0.796	±5%,±10%	2.5	24.0	65

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Size 2220 Molding / High Current Type

Part No.	Inductance (uH)	Q Min.	Test Freq. (MHz)	Tolerance	SRF (MHz) Min.	DCR (Ω) Max.	IDC (mA) Max.
SCI2220HT1R0□□□	1.0	10	7.96	±10,±20%	95	0.03	1800
SCI2220HT1R2□□□	1.2	10	7.96	±10, ±20%	70	0.035	1700
SCI2220HT1R5□□□	1.5	10	7.96	±10, ±20%	55	0.04	1600
SCI2220HT1R8□□□	1.8	10	7.96	±10, ±20%	47	0.05	1400
SCI2220HT2R2□□□	2.2	10	7.96	±10, ±20%	42	0.06	1300
SCI2220HT2R7□□□	2.7	10	7.96	±10, ±20%	37	0.07	1200
SCI2220HT3R3□□□	3.3	10	7.96	±10, ±20%	34	0.08	1120
SCI2220HT3R9□□□	3.9	10	7.96	±10, ±20%	32	0.09	1050
SCI2220HT4R7□□□	4.7	10	7.96	±10, ±20%	29	0.11	950
SCI2220HT5R6□□□	5.6	10	7.96	±10, ±20%	26	0.13	880
SCI2220HT6R8□□□	6.8	10	7.96	±10, ±20%	24	0.15	810
SCI2220HT8R2□□□	8.2	10	7.96	±10, ±20%	22	0.18	750
SCI2220HT100□□□	10	10	2.52	±10, ±20%	19	0.21	690
SCI2220HT120□□□	12	10	2.52	±10, ±20%	17	0.25	630
SCI2220HT150□□□	15	10	2.52	±10, ±20%	16	0.30	580
SCI2220HT180□□□	18	10	2.52	±10, ±20%	14	0.36	530
SCI2220HT220□□□	22	10	2.52	±5, ±10%	13	0.43	480
SCI2220HT270□□□	27	10	2.52	±5, ±10%	11.5	0.52	440
SCI2220HT330□□□	33	10	2.52	±5, ±10%	10.5	0.62	400
SCI2220HT390□□□	39	10	2.52	±5, ±10%	9.5	0.72	370
SCI2220HT470□□□	47	10	2.52	±5, ±10%	8.5	0.85	340
SCI2220HT560□□□	56	10	2.52	±5, ±10%	7.8	1.00	310
SCI2220HT680□□□	68	10	2.52	±5, ±10%	7.0	1.2	290
SCI2220HT820□□□	82	10	2.52	±5, ±10%	6.4	1.4	270
SCI2220HT101□□□	100	20	0.796	±5, ±10%	6.0	1.6	250
SCI2220HT121□□□	120	20	0.796	±5, ±10%	5.4	1.9	230
SCI2220HT151□□□	150	20	0.796	±5, ±10%	4.8	2.2	210
SCI2220HT181□□□	180	20	0.796	±5, ±10%	4.4	2.8	190
SCI2220HT221□□□	220	20	0.796	±5, ±10%	3.9	3.4	170
SCI2220HT271□□□	270	20	0.796	±5, ±10%	3.6	4.2	155
SCI2220HT331□□□	330	20	0.796	±5, ±10%	3.2	4.9	140
SCI2220HT391□□□	390	20	0.796	±5, ±10%	2.9	5.8	130
SCI2220HT471□□□	470	20	0.796	±5, ±10%	2.6	7.0	120
SCI2220HT561□□□	560	20	0.796	±5, ±10%	2.4	8.5	110
SCI2220HT681□□□	680	20	0.796	±5, ±10%	2.2	10	100
SCI2220HT821□□□	820	20	0.796	±5, ±10%	2.0	13	90
SCI2220HT102□□□	1000	20	0.252	±5, ±10%	1.8	15	85

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

■ Environmental Characteristics

Electrical Performance Test

Item	Requirement	Test Method
Inductance	Refer to standard electrical characteristic spec.	HP4291 or HP4284
Q		HP4291 or HP4284
SRF		HP4291
DC Resistance DCR		Agilent 34401A
Rated Current IDC		Applied the current to coils, The inductance change should be less than 10% to initial value

Mechanical Performance Test

Item	Requirement	Test Method
Solderability	The electrodes shall be at least 90% covered with new solder coating	Lead-free inductor: after fluxing (alpha 100 or equiv), inductor shall be dipped in a melted solder bath at 245.5 C, 5.0-5.5 seconds
Resistance to Soldering Heat	Appearance: No damage	Pre-heating: 150°C, 1min. Solder Temperature: 260±5°C Immersion Time: 10±1 seconds
Vibration	Appearance: No damage L change: within±10% Q change: within±30% DCR: within specification	Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1 min. Amplitude: 1.5 mm Time: 2 hrs for each axis (X, Y&Z), total 6 hrs

Climatic Test

Item	Requirement	Test Method															
Temperature Cycle	Appearance: No damage L change: within±10% Q change: within±30% DCR: within specification	One cycle: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25±3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25±2</td> <td>3</td> </tr> <tr> <td>3</td> <td>85±3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25±2</td> <td>3</td> </tr> </tbody> </table> Total: 100 cycles Measured after exposure in the room condition for 24 hrs	Step	Temperature (°C)	Time (min.)	1	-25±3	30	2	25±2	3	3	85±3	30	4	25±2	3
Step		Temperature (°C)	Time (min.)														
1		-25±3	30														
2		25±2	3														
3	85±3	30															
4	25±2	3															
Damp Heat with Load	Temperature: 40±2°C Relative Humidity: 90 ~ 95% Time: 1000 hrs Measured after exposure in the room condition for 24 hrs																
High Temperature Storage	Temperature: 85±3°C Applied Current: Rated Current Time: 1000 hrs Measured after exposure in the room condition for 24 hrs																
Low Temperature Storage	Temperature: -25±3°C Time: 1000 hrs Measured after exposure in the room condition for 24 hrs																

■ Storage Temperature : 23±15°C ; Humidity < 80%RH

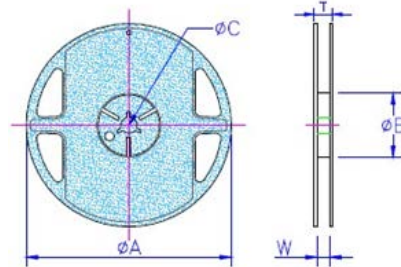
■ Operating Temperature Range : -40 ~ +85°C

WIRE WOUND CHIP INDUCTOR (FERRITE)

SCI SERIES

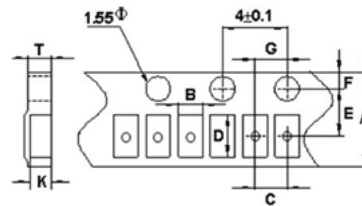
■ Packaging

Packaging Quantity & Reel Specifications



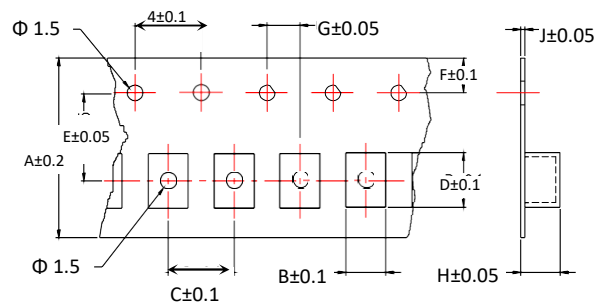
Size	ϕA	ϕB	ϕC	ϕW	ϕT	Quantity (EA)
0402	178.2.0	60.0.5	13.0.3	9.0.3	12.1.0	4000
0603	178.2.0	60.0.5	13.0.3	9.0.3	12.1.0	4000
0805	178.2.0	60.0.5	13.0.3	9.0.3	12.1.0	2000
1008	178.2.0	60.0.5	13.0.3	9.0.3	12.1.0	2000
1210	178.2.0	60.0.5	13.0.3	9.0.3	12.1.0	2000
1812	178.2.0	80.0.5	13.0.3	13.2.0.3	16.1.0	500
2220	330.2.0	100.0.5	13.0.3	17.4.0.3	22.1.0	1000

Paper Tape Specifications



Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	T (mm)	K (mm)
0402	8.0	0.67	2	1.20	3.5	1.75	2	0.75	0.59

Embossed Plastic Tape Specifications



Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (mm)
0603	8	1.25	4	1.90	3.5	1.75	2	1.00	0.23
0805	8	1.85	4	2.55	3.5	1.75	2	1.45	0.23
1008	8	2.80	4	2.95	3.5	1.75	2	2.22	0.23
1210	8	2.96	4	3.60	3.5	1.75	2	2.40	0.23
1812	12	3.30	8	5.00	5.5	1.75	2	3.50	0.30
2220	16	5.35	12	6.10	7.5	1.75	2	5.50	0.35