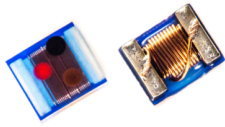


SCWI Series



Features

Ceramic body and wire wound construction provide high SRFs
 Exceptional Q value even at high frequencies
 Ceramic construction delivers the highest possible SRFs as well as high Q value
 Low DC resistance design supports low loss, high output and low power consumption
 SCWI series is standard for RF designers

Applications

RF products for cellular phone
 GPS receiver
 Base station
 Repeater
 Wireless LAN/mouse/keyboard/earphone
 Remote control
 security system and other RF modules

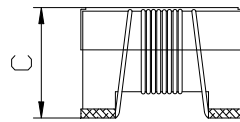
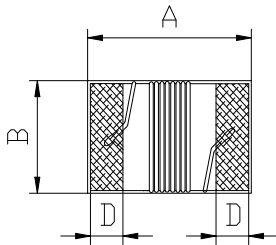
Product Identification

SCWIXXXXXTL - XXXX
 For example: SCWI160808TL-3N3K

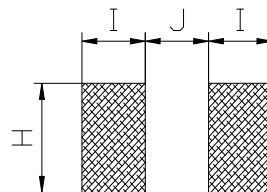
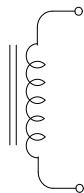
General Specifications

Test Frequency.....7.9~ 250MHz
 Test Voltage.....50mV
 Parameters Test Temp..... 25℃
 Operation Temp.....-40℃ to +125℃
 (Including temperature Rise)
 Storage Temp.....0℃~40℃
 Storage Humidity.....<70% RH
 Resistance to Soldering Heat.....260℃ for 10 sec
 Rated Current.....40℃ typ. at Irms

Shape And Dimensions



PAD Layout



Dimensions In mm

TYPE	A	B	C	D	H	I	J
	Max	Max	Max	Ref	Ref	Ref	Ref
100505 (0402)	1.19 (0.470)	0.66 (0.026)	0.60 (0.024)	0.23 (0.009)	0.66 (0.026)	0.36 (0.014)	0.46 (0.018)
160808 (0603)	1.78 (0.070)	1.10 (0.043)	0.95 (0.037)	0.30 (0.012)	1.02 (0.040)	0.64 (0.025)	0.64 (0.025)
201209 (0805)	2.30 (0.091)	1.70 (0.067)	1.52 (0.060)	0.50 (0.020)	1.78 (0.070)	1.02 (0.040)	0.76 (0.03)
252018 (1008)	2.92 (0.115)	2.79 (0.110)	2.10 (0.083)	0.50 (0.020)	2.54 (0.100)	1.02 (0.040)	1.27 (0.050)
322513 (1210)	3.50 (0.138)	2.90 (0.114)	2.25 (0.088)	0.50 (0.020)	2.54 (0.100)	1.02 (0.040)	1.78 (0.070)

Standard Specifications

Stamp	Inductance (nH)	Test frequency (MHz)	Q (Min)	Test frequency (MHz)	DCR (Ω) Max	SRF(MHZ) Min	Idc(mA) Max
SCWI100505TL-1N0	1.0	250	13	250	0.045	10000	1360
SCWI100505TL-2N2	2.2	250	18	250	0.070	6000	960
SCWI100505TL-2N7	2.7	250	15	250	0.120	6000	640
SCWI100505TL-3N3	3.3	250	20	250	0.066	6000	840
SCWI100505TL-3N9	3.9	250	20	250	0.066	6000	840
SCWI100505TL-4N7	4.7	250	18	250	0.200	4500	640
SCWI100505TL-5N6	5.6	250	20	250	0.083	4800	760
SCWI100505TL-6N8	6.8	250	23	250	0.260	4800	680
SCWI100505TL-8N2	8.2	250	25	250	0.100	4400	680
SCWI100505TL-10N	10.0	250	25	250	0.200	3900	480
SCWI100505TL-12N	12.0	250	25	250	0.120	3600	640
SCWI100505TL-15N	15.0	250	25	250	0.300	3280	560
SCWI100505TL-18N	18.0	250	25	250	0.230	3100	420
SCWI100505TL-22N	22.0	250	25	250	0.300	2800	400
SCWI100505TL-27N	27.0	250	24	250	0.520	2480	280
SCWI100505TL-33N	33.0	250	24	250	0.650	2350	350
SCWI100505TL-39N	39.0	250	25	250	0.750	2100	200
SCWI100505TL-47N	47.0	250	25	250	0.830	2100	150
SCWI100505TL-56N	56.0	250	25	250	0.970	1760	100
SCWI100505TL-68N	68.0	250	25	250	1.120	1620	100
SCWI100505TL-82N	82.0	250	25	250	1.700	1260	50
SCWI100505TL-R10	100.0	250	25	250	2.000	1160	30
SCWI100505TL-R12	120.0	250	25	250	2.200	1100	30

Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%

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Standard Specifications

Stamp	Inductance (nH)	Test frequency (MHz)	Q (Min)	Test frequency (MHz)	DCR (Ω) Max	SRF(MHZ) Min	Idc(mA) Max
SCWI160808TL-1N6	1.6	250	18	250	0.040	12500	700
SCWI160808TL-1N8	1.8	250	16	250	0.045	12500	700
SCWI160808TL-2N2	2.2	250	12	250	0.090	10000	700
SCWI160808TL-3N3	3.3	250	20	250	0.075	5900	700
SCWI160808TL-3N6	3.6	250	22	250	0.075	5900	700
SCWI160808TL-3N9	3.9	250	22	250	0.080	6900	700
SCWI160808TL-4N3	4.3	250	22	250	0.075	5900	700
SCWI160808TL-4N7	4.7	250	20	250	0.116	5800	700
SCWI160808TL-5N1	5.1	250	20	250	0.120	5700	700
SCWI160808TL-5N6	5.6	250	18	250	0.200	5700	700
SCWI160808TL-6N8	6.8	250	27	250	0.110	5800	700
SCWI160808TL-7N5	7.5	250	28	250	0.110	4800	700
SCWI160808TL-8N2	8.2	250	28	250	0.120	4700	700
SCWI160808TL-9N5	9.5	250	26	250	0.150	5400	700
SCWI160808TL-10N	10.0	250	31	250	0.130	4800	700
SCWI160808TL-12N	12.0	250	35	250	0.130	4000	700
SCWI160808TL-15N	15.0	250	30	250	0.150	4000	700
SCWI160808TL-18N	18.0	250	35	250	0.170	3100	700
SCWI160808TL-22N	22.0	250	38	250	0.190	3000	700
SCWI160808TL-27N	27.0	250	36	250	0.220	2800	600
SCWI160808TL-33N	33.0	250	36	250	0.220	2300	600
SCWI160808TL-36N	36.0	250	36	250	0.250	2080	600
SCWI160808TL-39N	39.0	250	40	250	0.250	2200	600
SCWI160808TL-43N	43.0	250	36	250	0.280	2000	600
SCWI160808TL-47N	47.0	200	36	200	0.280	2000	600
SCWI160808TL-56N	56.0	200	38	200	0.280	1900	600
SCWI160808TL-68N	68.0	200	36	200	0.340	1700	600
SCWI160808TL-75N	75.0	150	30	150	0.600	1400	400
SCWI160808TL-82N	82.0	150	34	150	0.550	1700	400
SCWI160808TL-R10	100.0	150	30	150	0.630	1400	400
SCWI160808TL-R12	120.0	150	32	150	0.730	1300	300
SCWI160808TL-R15	150.0	150	28	150	0.800	990	280
SCWI160808TL-R18	180.0	100	25	100	1.450	990	240
SCWI160808TL-R20	200.0	100	25	100	1.550	900	200
SCWI160808TL-R22	220.0	100	25	100	2.100	900	200
SCWI160808TL-R27	270.0	100	24	100	2.300	900	170
SCWI160808TL-R33	330.0	100	25	100	3.890	900	100
SCWI160808TL-R39	390.0	100	25	100	4.350	800	100

Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%

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Standard Specifications

Stamp	Inductance (nH)	Test frequency (MHz)	Q (Min)	Test frequency (MHz)	DCR (Ω) Max	SRF(MHZ) Min	Idc(mA) Max
SCWI201209TL-2N2	2.2	250	50	1500	0.030	8500	800
SCWI201209TL-2N7	2.7	250	50	1500	0.045	8000	800
SCWI201209TL-3N3	3.3	250	35	1500	0.090	7900	600
SCWI201209TL-4N7	4.7	250	40	1000	0.050	6000	600
SCWI201209TL-5N6	5.6	250	50	1000	0.065	5500	600
SCWI201209TL-6N8	6.8	250	50	1000	0.110	5500	600
SCWI201209TL-8N2	8.2	250	35	1000	0.200	4700	600
SCWI201209TL-10N	10.0	250	50	500	0.150	4200	600
SCWI201209TL-12N	12.0	250	50	500	0.150	4000	600
SCWI201209TL-15N	15.0	250	45	500	0.170	3400	600
SCWI201209TL-18N	18.0	250	55	500	0.200	3300	600
SCWI201209TL-22N	22.0	250	55	500	0.220	2600	500
SCWI201209TL-27N	27.0	250	55	500	0.250	2500	500
SCWI201209TL-33N	33.0	250	55	500	0.270	2050	500
SCWI201209TL-39N	39.0	250	55	500	0.290	2000	500
SCWI201209TL-47N	47.0	200	55	500	0.310	1650	500
SCWI201209TL-56N	56.0	200	55	500	0.340	1550	500
SCWI201209TL-68N	68.0	200	55	500	0.380	1450	500
SCWI201209TL-75N	75.0	200	55	500	0.400	1400	400
SCWI201209TL-82N	82.0	150	55	500	0.420	1300	400
SCWI201209TL-R10	100.0	150	50	500	0.460	1200	400
SCWI201209TL-R12	120.0	150	45	250	0.510	1100	400
SCWI201209TL-R15	150.0	100	45	250	0.560	920	400
SCWI201209TL-R18	180.0	100	45	250	0.640	870	400
SCWI201209TL-R22	220.0	100	40	250	1.050	850	400
SCWI201209TL-R27	270.0	100	40	250	1.100	650	350
SCWI201209TL-R33	330.0	100	40	250	1.400	600	310
SCWI201209TL-R39	390.0	100	40	250	1.500	560	290
SCWI201209TL-R47	470.0	50	33	100	2.000	375	250
SCWI201209TL-R56	560.0	25	23	50	1.900	340	230
SCWI201209TL-R68	680.0	25	23	50	2.100	300	190
SCWI201209TL-R75	750.0	25	23	50	2.120	280	180
SCWI201209TL-R82	820.0	25	23	50	2.140	250	180
SCWI201209TL--R91	910.0	25	20	50	2.280	220	180
SCWI201209TL-1R0	1000.0	25	20	50	2.400	200	170
SCWI201209TL-1R2	1200.0	7.9	18	50	2.550	180	170
SCWI201209TL-1R5	1500.0	7.9	18	50	2.800	170	160
SCWI201209TL-1R8	1800.0	7.9	18	50	3.800	140	150
SCWI201209TL-2R2	2200.0	7.9	16	7.9	4.200	50	150

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Standard Specifications

Stamp	Inductance (nH)	Test frequency (MHz)	Q (Min)	Test frequency (MHz)	DCR (Ω) Max	SRF(MHZ) Min	Idc(mA) Max
SCWI252018TL-3N9	3.9	50	50	1500	0.035	6000	1000
SCWI252018TL-4N7	4.7	50	50	1500	0.045	6000	1000
SCWI252018TL-5N6	5.6	50	30	1000	0.180	6000	1000
SCWI252018TL-8N2	8.2	50	50	1000	0.050	5000	1000
SCWI252018TL-10N	10.0	50	50	500	0.080	4100	1000
SCWI252018TL-12N	12.0	50	50	500	0.090	3300	1000
SCWI252018TL-15N	15.0	50	45	500	0.150	2500	1000
SCWI252018TL-18N	18.0	50	50	350	0.110	2500	1000
SCWI252018TL-22N	22.0	50	55	350	0.120	2400	1000
SCWI252018TL-27N	27.0	50	55	350	0.130	1600	1000
SCWI252018TL-33N	33.0	50	60	350	0.140	1600	1000
SCWI252018TL-39N	39.0	50	60	350	0.150	1500	1000
SCWI252018TL-47N	47.0	50	65	350	0.160	1500	1000
SCWI252018TL-56N	56.0	50	65	350	0.180	1100	1000
SCWI252018TL-68N	68.0	50	65	350	0.200	1000	1000
SCWI252018TL-82N	82.0	50	60	350	0.220	1000	1000
SCWI252018TL-R10	100.0	25	60	350	0.560	1000	650
SCWI252018TL-R12	120.0	25	60	350	0.630	950	650
SCWI252018TL-R15	150.0	25	45	100	0.700	800	580
SCWI252018TL-R18	180.0	25	45	100	0.770	640	620
SCWI252018TL-R22	220.0	25	45	100	0.840	620	500
SCWI252018TL-R27	270.0	25	45	100	0.910	600	500
SCWI252018TL-R33	330.0	25	45	100	1.050	500	450
SCWI252018TL-R39	390.0	25	45	100	1.120	480	470
SCWI252018TL-R47	470.0	25	45	100	1.190	450	470
SCWI252018TL-R56	560.0	25	45	100	1.330	415	400
SCWI252018TL-R68	680.0	25	45	100	1.470	375	400
SCWI252018TL-R82	820.0	25	45	100	1.610	250	400
SCWI252018TL-1R0	1000.0	25	35	50	1.750	210	370
SCWI252018TL-1R2	1200.0	7.9	35	50	2.000	200	310
SCWI252018TL-1R5	1500.0	7.9	28	50	2.300	180	330
SCWI252018TL-1R8	1800.0	7.9	28	50	2.600	160	300
SCWI252018TL-2R2	2200.0	7.9	20	50	2.800	90	280
SCWI252018TL-2R7	2700.0	7.9	22	25	3.200	80	290
SCWI252018TL-3R3	3300.0	7.9	22	25	3.400	70	290
SCWI252018TL-3R9	3900.0	7.9	16	25	3.600	60	260
SCWI252018TL-4R7	4700.0	7.9	18	25	4.000	60	260
SCWI252018TL-5R6	5600.0	7.9	18	7.9	7.600	55	240
SCWI252018TL-6R8	6800.0	7.9	18	7.9	8.200	50	200
SCWI252018TL-8R2	8200.0	7.9	18	7.9	8.200	40	170
SCWI252018TL-100	10000.0	7.9	20	7.9	9.100	40	160

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Standard Specifications

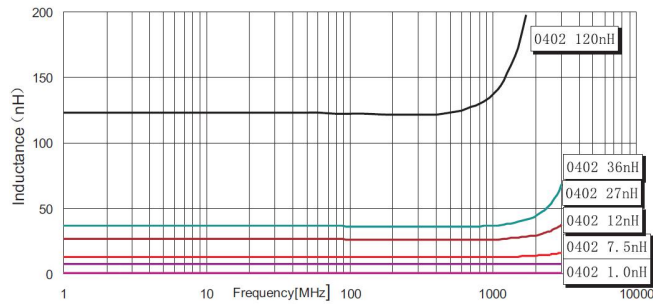
Stamp	Inductance (nH)	Test frequency (MHz)	Q (Min)	Test frequency (MHz)	DCR (Ω) Max	SRF(MHZ) Min	Idc(mA) Max
SCWI322513TL-3N9	3.9	100	30	300	0.050	6000	1000
SCWI322513TL-4N7	4.7	100	30	300	0.065	5800	1000
SCWI322513TL-8N2	8.2	100	30	300	0.070	5500	1000
SCWI322513TL-10N	10.0	100	40	300	0.080	4000	1000
SCWI322513TL-12N	12.0	100	40	300	0.080	3200	1000
SCWI322513TL-15N	15.0	100	40	300	0.100	3200	1000
SCWI322513TL-18N	18.0	100	50	300	0.100	2800	1000
SCWI322513TL-22N	22.0	100	50	300	0.100	2000	1000
SCWI322513TL-27N	27.0	100	50	300	0.110	1800	1000
SCWI322513TL-33N	33.0	100	55	300	0.110	1800	1000
SCWI322513TL-39N	39.0	100	55	300	0.120	1800	1000
SCWI322513TL-47N	47.0	100	55	300	0.130	1500	1000
SCWI322513TL-56N	56.0	100	55	300	0.140	1450	1000
SCWI322513TL-68N	68.0	100	55	300	0.150	1200	900
SCWI322513TL-82N	82.0	100	55	300	0.200	1000	900
SCWI322513TL-R10	100.0	100	55	300	0.210	900	850
SCWI322513TL-R12	120.0	100	60	300	0.210	800	800
SCWI322513TL-R15	150.0	100	60	300	0.250	780	750
SCWI322513TL-R18	180.0	50	60	300	0.300	760	700
SCWI322513TL-R22	220.0	50	60	300	0.320	650	670
SCWI322513TL-R27	270.0	50	55	300	0.340	620	630
SCWI322513TL-R33	330.0	50	45	150	0.380	600	590
SCWI322513TL-R39	390.0	50	45	150	0.580	510	530
SCWI322513TL-R47	470.0	50	45	150	0.800	500	490
SCWI322513TL-R56	560.0	35	45	150	1.100	420	460
SCWI322513TL-R68	680.0	35	45	150	1.200	400	430
SCWI322513TL-R75	750.0	35	45	150	1.700	380	400
SCWI322513TL-R82	820.0	35	45	150	1.820	370	400
SCWI322513TL-1R0	1000.0	35	45	150	1.850	340	320
SCWI322513TL-1R2	1200.0	35	35	150	1.870	220	300
SCWI322513TL-1R5	1500.0	7.9	30	50	1.950	160	310
SCWI322513TL-1R8	1800.0	7.9	30	50	2.250	160	310
SCWI322513TL-2R2	2200.0	7.9	30	50	2.410	110	310
SCWI322513TL-2R7	2700.0	7.9	25	25	2.850	100	300
SCWI322513TL-3R3	3300.0	7.9	20	25	3.120	85	300
SCWI322513TL-3R9	3900.0	7.9	20	25	3.600	80	290
SCWI322513TL-4R7	4700.0	7.9	16	25	4.000	60	280
SCWI322513TL-5R6	5600.0	7.9	20	7.9	5.000	60	250
SCWI322513TL-6R8	6800.0	7.9	20	7.9	8.000	55	230
SCWI322513TL-8R2	8200.0	7.9	20	7.9	8.600	50	170
SCWI322513TL-100	10000.0	7.9	22	7.9	6.800	20	200

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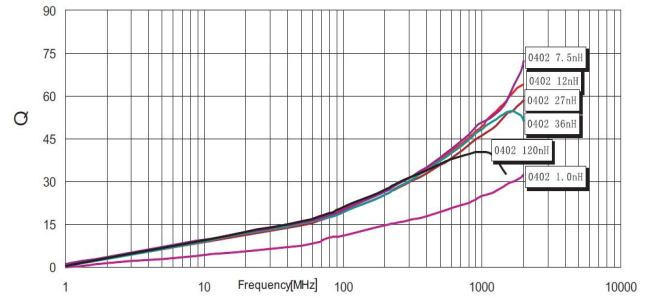
*Beyond the above specification also can meet the special requirements. Need detailed content Please to the website query or contact us.

Inductance vs Frequency Characteristics

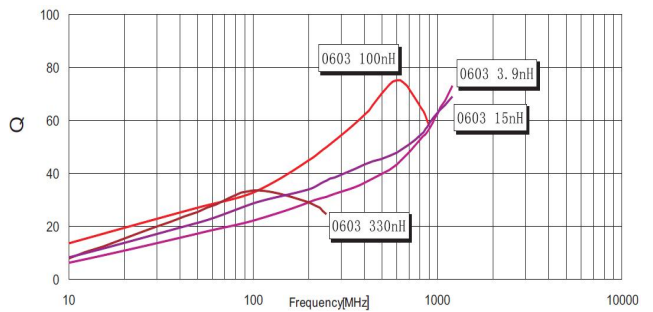
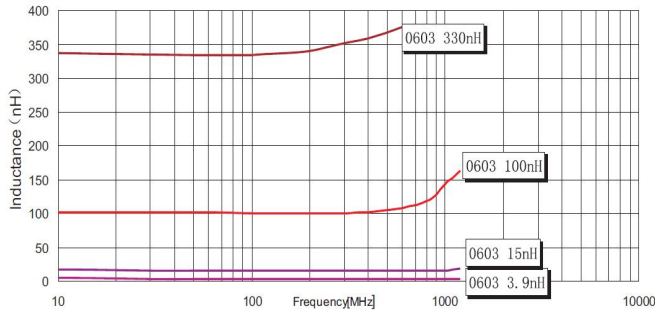


Q vs Frequency Characteristics

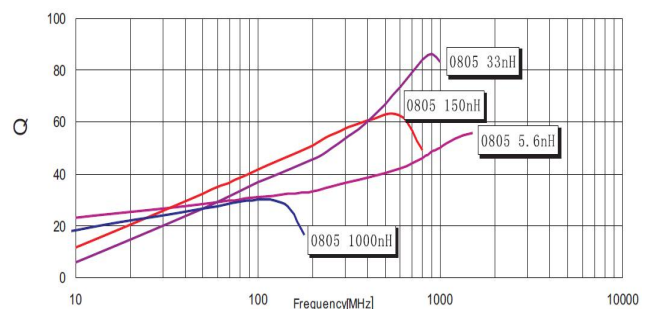
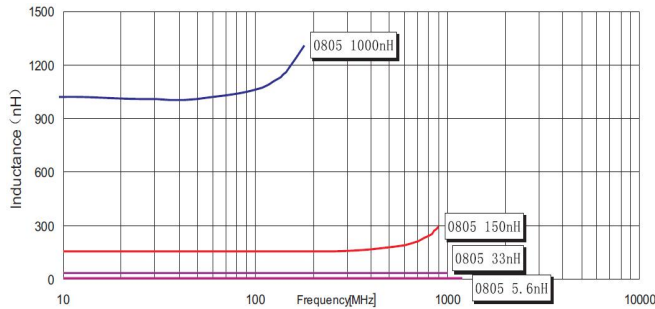
SCWI100505(0402)



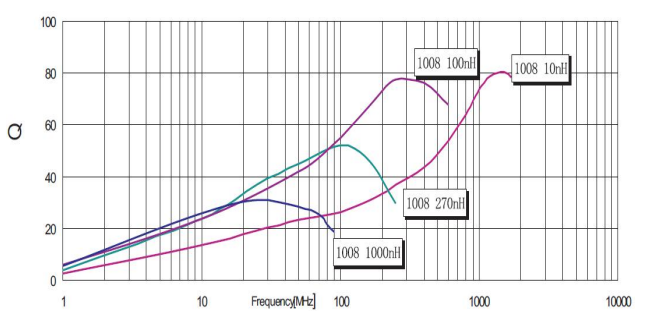
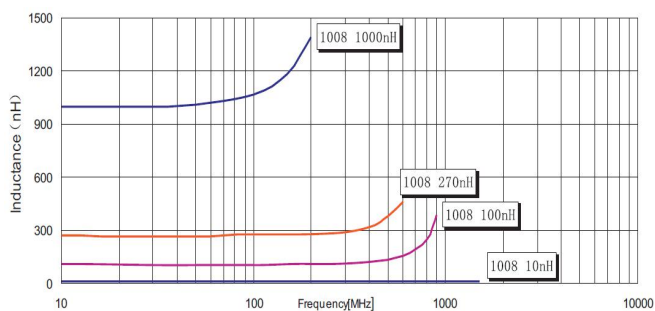
SCWI160808(0603)



SCWI201209(0805)



SCWI252018(1008)



SCWI322513(1210)

