

**SCHF Series**



**Features**

Excellent Q factor and SRF characteristics  
 small size of 100505/201209 is suitable for small portable devices  
 supports operating frequency up to 6GHz with nominal inductance values form1.0nH to 220nH

**Applications**

RF resonance and impedance matching circuit  
 RF and wireless communication  
 Information technology, computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, PDAs, keyless remote systems  
 L-C filter configurations

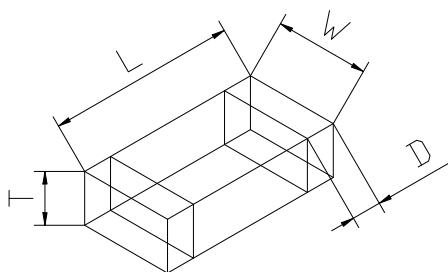
**Product Identification**

SCHFXXXXXTL - XXXX  
 For example:SCHF100505TL-18NJ

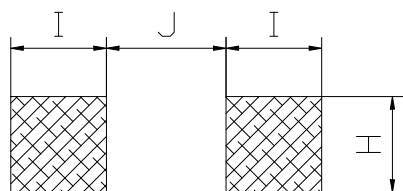
**General Specifications**

Test frequency..... 100MHz  
 Test Voltage.....50mV  
 Parameters Test Temp..... 25℃  
 Operation Temp.....-55℃ 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	L	W	T	D	H	I	J
	Ref	Ref	Ref	Ref	Ref	Ref	Ref
100505 (0402)	1.00±0.15 (0.040±0.006)	0.50±0.15 (0.020±0.006)	0.50±0.15 (0.020±0.006)	0.25±0.10 (0.010±0.004)	0.40 (0.016)	0.50 (0.020)	0.40 (0.016)
160808 (0603)	1.60±0.20 (0.063±0.008)	0.80±0.20 (0.031±0.008)	0.80±0.20 (0.031±0.008)	0.30±0.20 (0.012±0.008)	0.60 (0.024)	1.30 (0.051)	0.80 (0.031)
201209 (0805)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	0.90±0.20 (0.035±0.008)	0.50±0.30 (0.020±0.012)	1.00 (0.040)	1.40 (0.055)	1.20 (0.047)

Standard Specifications

Stamp	Inductance (nH) 100MHZ	Q (Min) 100MHZ	Q Frequency(MHZ)					DCR (Ω) Max	SRF(MHZ) Min	Rated current (mA) Max
			100	300	500	800	1000			
SCHF100505TL-1N0	1.0	7.0	8.0	20.0	26.0	34.0	38.0	0.17	6000	300
SCHF100505TL-1N2	1.2	7.0	8.0	20.0	26.0	34.0	38.0	0.17	6000	300
SCHF100505TL-1N5	1.5	7.0	8.0	20.0	26.0	34.0	38.0	0.18	6000	300
SCHF100505TL-1N8	1.8	7.0	8.0	18.0	24.0	30.0	35.0	0.19	6000	300
SCHF100505TL-2N2	2.2	7.0	8.0	17.0	24.0	29.0	35.0	0.21	6000	300
SCHF100505TL-2N7	2.7	7.0	8.0	17.0	23.0	29.0	34.0	0.22	5500	300
SCHF100505TL-3N3	3.3	7.0	8.0	17.0	23.0	28.0	34.0	0.25	5500	300
SCHF100505TL-3N9	3.9	7.0	8.0	17.0	23.0	28.0	33.0	0.25	5200	300
SCHF100505TL-4N7	4.7	7.0	8.0	17.0	23.0	28.0	33.0	0.30	4800	300
SCHF100505TL-5N6	5.6	7.0	8.0	17.0	22.0	28.0	33.0	0.30	4600	300
SCHF100505TL-6N8	6.8	7.0	8.0	17.0	22.0	27.0	33.0	0.37	4000	250
SCHF100505TL-8N2	8.2	7.0	10.0	16.0	22.0	28.0	32.0	0.45	3600	250
SCHF100505TL-10N	10.0	7.0	10.0	17.0	22.0	30.0	32.0	0.47	3200	250
SCHF100505TL-12N	12.0	8.0	11.0	17.0	24.0	31.0	34.0	0.55	2800	250
SCHF100505TL-15N	15.0	8.0	11.0	18.0	24.0	30.0	33.0	0.70	2500	250
SCHF100505TL-18N	18.0	8.0	11.0	18.0	24.0	30.0	32.0	0.70	2200	200
SCHF100505TL-22N	22.0	8.0	11.0	18.0	24.0	30.0	31.0	0.90	2000	200
SCHF100505TL-27N	27.0	8.0	11.0	18.0	23.0	27.0	29.0	1.00	1600	200
SCHF100505TL-33N	33.0	8.0	11.0	18.0	22.0	25.0	25.0	1.10	1300	200
SCHF100505TL-39N	39.0	8.0	11.0	18.0	22.0	24.0	23.0	1.30	1200	150
SCHF100505TL-47N	47.0	8.0	11.0	18.0	21.0	23.0	21.0	1.40	1000	150

Note: When ordering, please specify tolerance code. Tolerance: S=±0.3nH, D=±0.5nH, J=±5%, K=±10%, M=±20%

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Standard Specifications

Stamp	Inductance (nH) 100MHZ	Q (Min) 100MHZ	Q Frequency(MHZ)					DCR (Ω) Max	SRF(MHZ) Min	Rated current (mA) Max
			100	300	500	800	1000			
SCHF160808TL-1N0	1.0	8.0	14.0	20.0	30.0	35.0	50.0	0.05	10000	500
SCHF160808TL-1N2	1.2	8.0	14.0	20.0	30.0	35.0	50.0	0.10	10000	500
SCHF160808TL-1N5	1.5	8.0	14.0	22.0	37.0	38.0	68.0	0.10	10000	400
SCHF160808TL-1N8	1.8	8.0	14.0	21.0	33.0	35.0	61.0	0.12	9800	400
SCHF160808TL-2N2	2.2	8.0	14.0	26.0	40.0	39.0	60.0	0.20	7600	400
SCHF160808TL-2N7	2.7	8.0	12.0	23.0	27.0	37.0	47.0	0.20	7000	400
SCHF160808TL-3N3	3.3	8.0	12.0	23.0	27.0	36.0	47.0	0.20	6200	400
SCHF160808TL-3N9	3.9	8.0	12.0	25.0	28.0	38.0	47.0	0.25	5600	400
SCHF160808TL-4N7	4.7	8.0	12.0	26.0	30.0	38.0	49.0	0.30	4800	400
SCHF160808TL-5N6	5.6	8.0	12.0	26.0	29.0	35.0	34.0	0.30	4600	400
SCHF160808TL-6N8	6.8	8.0	12.0	23.0	27.0	35.0	40.0	0.35	4200	400
SCHF160808TL-8N2	8.2	8.0	12.0	22.0	26.0	33.0	39.0	0.35	3600	400
SCHF160808TL-10N	10.0	8.0	13.0	25.0	31.0	38.0	45.0	0.40	3200	300
SCHF160808TL-12N	12.0	8.0	13.0	24.0	28.0	35.0	39.0	0.40	2800	300
SCHF160808TL-15N	15.0	8.0	13.0	22.0	27.0	34.0	40.0	0.45	2600	300
SCHF160808TL-18N	18.0	8.0	13.0	24.0	28.0	35.0	38.0	0.60	2400	300
SCHF160808TL-22N	22.0	8.0	15.0	27.0	32.0	38.0	43.0	0.60	2000	300
SCHF160808TL-27N	27.0	8.0	14.0	26.0	29.0	36.0	44.0	0.80	1900	300
SCHF160808TL-33N	33.0	8.0	14.0	26.0	29.0	35.0	34.0	0.80	1600	300
SCHF160808TL-39N	39.0	8.0	14.0	22.0	25.0	28.0	28.0	1.00	1400	300
SCHF160808TL-47N	47.0	8.0	15.0	25.0	29.0	30.0	25.0	1.00	1200	200
SCHF160808TL-56N	56.0	8.0	17.0	28.0	31.0	31.0	25.0	1.00	1000	200
SCHF160808TL-68N	68.0	8.0	17.0	22.0	24.0	25.0	15.0	1.00	900	200
SCHF160808TL-82N	82.0	8.0	17.0	23.0	24.0	22.0	13.0	1.00	800	200
SCHF160808TL-R10	100.0	8.0	17.0	25.0	27.0	24.0	17.0	1.40	700	200
SCHF160808TL-R12	120.0	8.0	15.0	24.0	23.0			1.60	600	150
SCHF160808TL-R15	150.0	8.0	130	19.0				1.80	500	150

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## Standard Specifications

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			100	300	500	800	1000			
SCHF201209TL-1N5	1.5	8.0	10.0	23.0	46.0	54.0	85.0	0.10	6000	600
SCHF201209TL-1N8	1.8	8.0	13.0	24.0	46.0	55.0	85.0	0.10	6000	600
SCHF201209TL-2N2	2.2	8.0	13.0	25.0	46.0	53.0	85.0	0.10	6000	600
SCHF201209TL-2N7	2.7	8.0	13.0	25.0	42.0	45.0	76.0	0.10	6000	600
SCHF201209TL-3N3	3.3	8.0	15.0	28.0	48.0	52.0	85.0	0.13	6000	600
SCHF201209TL-3N9	3.9	8.0	15.0	28.0	49.0	55.0	85.0	0.15	5400	600
SCHF201209TL-4N7	4.7	8.0	15.0	28.0	48.0	53.0	85.0	0.20	4500	400
SCHF201209TL-5N6	5.6	8.0	16.0	30.0	44.0	45.0	78.0	0.23	4000	400
SCHF201209TL-6N8	6.8	8.0	16.0	30.0	40.0	45.0	69.0	0.25	3650	400
SCHF201209TL-8N2	8.2	8.0	16.0	28.0	42.0	45.0	69.0	0.28	3000	400
SCHF201209TL-10N	10.0	8.0	16.0	28.0	43.0	45.0	71.0	0.30	2500	300
SCHF201209TL-12N	12.0	8.0	16.0	28.0	43.0	45.0	50.0	0.35	2450	300
SCHF201209TL-15N	15.0	8.0	18.0	30.0	43.0	43.0	56.0	0.40	2000	300
SCHF201209TL-18N	18.0	8.0	18.0	26.0	40.0	42.0	59.0	0.45	1750	300
SCHF201209TL-22N	22.0	8.0	17.0	31.0	45.0	45.0	59.0	0.50	1700	300
SCHF201209TL-27N	27.0	8.0	17.0	31.0	45.0	45.0	54.0	0.55	1550	300
SCHF201209TL-33N	33.0	8.0	18.0	27.0	41.0	40.0	44.0	0.60	1350	300
SCHF201209TL-39N	39.0	8.0	19.0	31.0	42.0	31.0	20.0	0.70	1300	300
SCHF201209TL-47N	47.0	8.0	20.0	24.0	33.0	31.0	29.0	0.80	1200	300
SCHF201209TL-56N	56.0	8.0	21.0	34.0	43.0	35.0	25.0	0.80	1150	300
SCHF201209TL-68N	68.0	8.0	19.0	28.0	37.0	29.0		0.85	1000	300
SCHF201209TL-82N	82.0	8.0	19.0	29.0	30.0	27.0		0.90	850	300
SCHF201209TL-R10	100.0	8.0	13.0	27.0	36.0			1.00	600	300
SCHF201209TL-R12	120.0	8.0	19.0	27.0				1.20	500	300
SCHF201209TL-R15	150.0	8.0	19.0	27.0				1.50	500	300
SCHF201209TL-R18	180.0	8.0	19.0	25.0				1.80	400	300
SCHF201209TL-R22	220.0	8.0	19.0	22.0				1.80	350	300

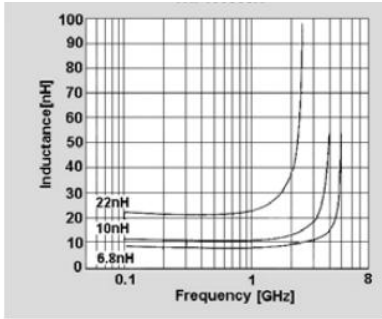
Note: When ordering, please specify tolerance code. Tolerance: S=±0.3nH, D=±0.5nH, J=±5%, K=±10%, M=±20%

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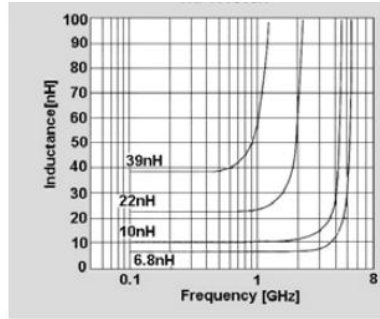
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Inductance VS Frequency

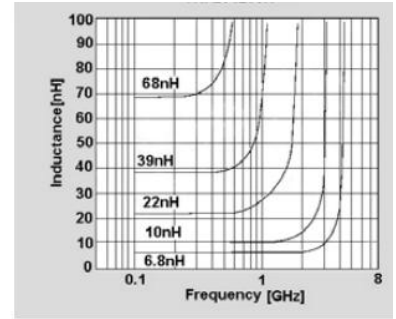
SCHF100505TL



SCHF160808TL

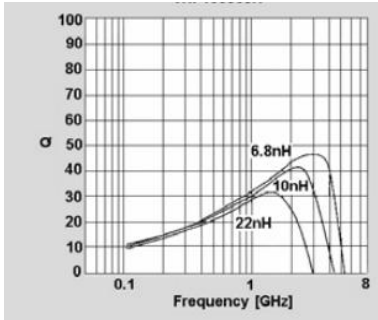


SCHF201209TL

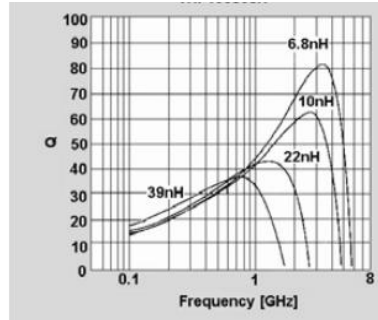


Q Value VS Frequency

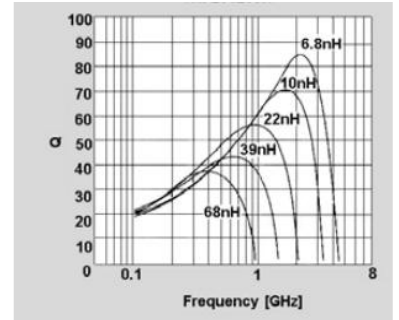
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SCHF160808TL

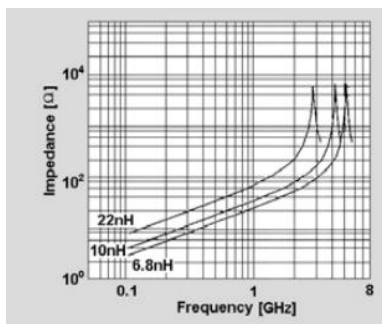


SCHF201209TL

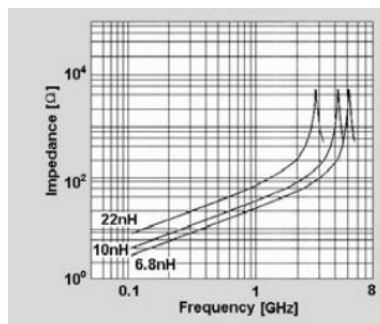


Impedance VS Frequency

SCHF100505TL



SCHF160808TL



SCHF201209TL

