



SMTSC SERIES

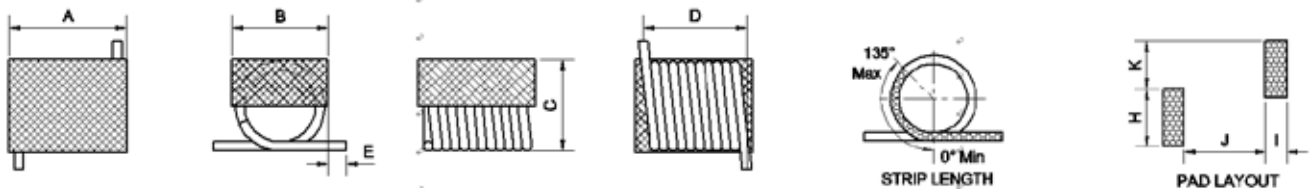
SURFACE MOUNT SPRING COILS

Applications :

- Satellite communication systems.
- TVs and audio equipment.
- Microwave equipment.
- Band pass equipment.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	D	Item	H	I	J	K
SMTSC0403	3.68MAX.	3.05MAX	3.18 MAX	2.92±0.25	SMTSC0403	3.30	1.27	1.65	2.79
SMTSC0504	4.95MAX	3.81MAX	4.20MAX	4.32±0.39	SMTSC0504	5.16	1.48	2.85	2.62
SMTSC0703	6.86MAX	3.05 MAX	3.18 MAX	5.84±0.25	SMTSC0703	3.30	1.27	4.70	2.79
SMTSC1006	10.55MAX	6.35MAX	5.97MAX	7.98±0.51	SMTSC1006	4.70	2.04	5.95	2.42

Features :

- High Q over a wide frequency range.
- Jacket with a high temperature material which assures mechanical stability and very close tolerance .
- Forms a flat top making them suitable for automatic placement and reflow .
- Tinned leads assure reliable soldering.
- Standard EIA tape and reel packing.

Characteristics :

- Rated Current : The current when temperature of coil increase up to max. $\Delta T = 15^{\circ}\text{C}$. ($T_a = 20^{\circ}\text{C}$)
- Operating temperature : -40°C to 125°C .

Product Identification :

SMTSC 0403 - 18N5 J

(1) (2) (3) (4)

(1)Type : **Surface Mount Type Spring Coils.**

(2)Style : **L=3.86mm W=3.05mm H=3.18mm**

(3)Inductance : **18N5 for 18.5 nH .**

(4)Inductance tolerance : **J : ±5%; K: ±10%.**

Test equipments :

- Inductance measured at 0Adc on an HP 4284A LCR Meter or equivalent.
- DCR measured on a Chroma 16502 micro- Ω meter or equivalent.
- Electrical specifications at 25°C .



● **SMTSC series**

Part No.	Turns	Inductance L (nH)	Quality Factor Min.	Test Freq. (MHz)	SRF (MHz) Min.	DCR (mΩ) Max.	Rated Current (mA) Max.
SMTSC0403 -2N5K	1	2.5	145	150	12500(ref)	1.1	4.0
SMTSC0403 -5N0K	2	5.0	140	150	6500(ref)	1.8	4.0
SMTSC0403 -8N0J	3	8.0	140	150	5000(ref)	2.6	4.0
SMTSC0403 -12N5J	4	12.5	137	150	3300(ref)	3.4	4.0
SMTSC0403 -18N5J	5	18.5	132	150	2500(ref)	3.9	4.0
SMTSC0504 -22NJ	5	22	100	150	3200(ref)	4.2	3.0
SMTSC0504 -27NJ	5	27	100	150	2700(ref)	4.0	3.5
SMTSC0504 -33NJ	6	33	100	150	2500(ref)	4.8	3.0
SMTSC0504 -39NJ	6	39	100	150	2100	4.4	3.0
SMTSC0504 -47NJ	7	47	100	150	2100	5.6	3.0
SMTSC0504 -56NJ	7	56	100	150	1500	6.2	3.0
SMTSC0504 -68NJ	8	68	100	150	1500	8.2	2.5
SMTSC0504 -82NJ	8	82	100	150	1300	9.4	2.5
SMTSC0504 -R10J	9	100	100	150	1200	12.3	1.7
SMTSC0504 -R12J	10	120	100	150	1100	17.3	1.5
SMTSC0703 -17N5J	6	17.5	100	150	2200	4.5	4.0
SMTSC0703 -22NJ	7	22.0	102	150	2100	5.2	4.0
SMTSC0703 -28NJ	8	28.0	105	150	1800	6.0	4.0
SMTSC0703 -35N5J	9	35.5	112	150	1500	6.8	4.0
SMTSC0703 -43NJ	10	43.0	106	150	1200	7.9	4.0
SMTSC1006 -90NJ	9	90	95	50	1140	15.0	3.5
SMTSC1006 -R111J	10	111	87	50	1020	15.0	3.5
SMTSC1006 -R130J	11	130	87	50	900	20.0	3.0
SMTSC1006 -R169J	12	169	95	50	875	25.0	3.0
SMTSC1006 -R206J	13	206	95	50	800	30.0	3.0
SMTSC1006 -R222J	14	222	92	50	730	35.0	3.0
SMTSC1006 -R246J	15	246	95	50	685	35.0	3.0
SMTSC1006 -R307J	16	307	95	50	660	35.0	3.0
SMTSC1006 -R380J	17	380	95	50	590	50.0	2.5
SMTSC1006 -R422J	18	422	95	50	540	60.0	2.5
SMTSC1006 -R491J	19	491	95	50	535	65.0	2.0
SMTSC1006 -R538J	20	538	87	50	490	90.0	2.0

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.