

TSC 1812 SERIES

SURFACE MOUNT, MOLDED, SHIELDED INDUCTOR

FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481
- Compatible with vapor phase and infra-red reflow soldering
- Shielded construction minimizes coupling to other components

SPECIFICATIONS

Inductance Range: .01 μ H to 1000 μ H.

Inductance Tolerance: $\pm 20\%$ for .01 μ H to .82 μ H.
 $\pm 10\%$ for 1.0 μ H to 1000 μ H standard.
 $\pm 10\%$, $\pm 5\%$, $\pm 3\%$ available.

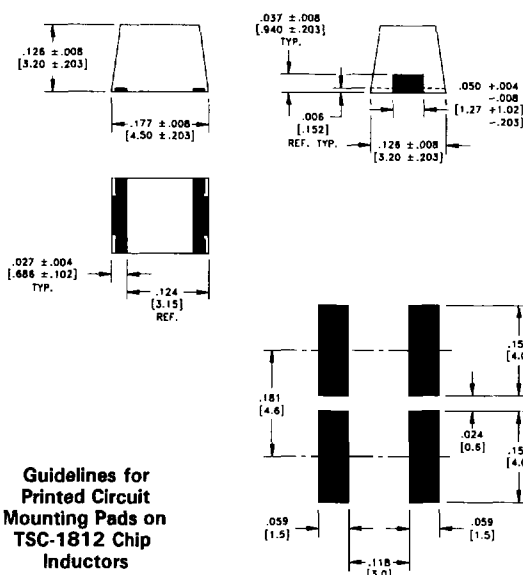
Temperature Range: - 40°C to + 105°C.

Coilform Material: Ceramic for .01 μ H to .82 μ H.

Powdered Iron for 1.0 μ H to 22 μ H. Ferrite for 27 μ H to 1000 μ H.

IND (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
.10	$\pm 20\%$	30	25.2	460.0	.23	450
.12	$\pm 20\%$	30	25.2	400.0	.26	450
.15	$\pm 20\%$	30	25.2	390.0	.29	450
.18	$\pm 20\%$	30	25.2	350.0	.32	450
.22	$\pm 20\%$	30	25.2	310.0	.36	450
.27	$\pm 20\%$	30	25.2	280.0	.40	450
.33	$\pm 20\%$	30	25.2	240.0	.45	450
.39	$\pm 20\%$	30	25.2	215.0	.60	410
.47	$\pm 20\%$	30	25.2	205.0	.75	370
.56	$\pm 20\%$	30	25.2	195.0	.80	355
.68	$\pm 20\%$	30	25.2	165.0	.95	310
.82	$\pm 20\%$	30	25.2	155.0	1.20	285
1.0	$\pm 20\%$	30	7.96	140.0	.35	150
1.2	$\pm 20\%$	30	7.96	120.0	.38	145
1.5	$\pm 20\%$	30	7.96	100.0	.40	140
1.8	$\pm 20\%$	30	7.96	90.0	.43	130
2.2	$\pm 20\%$	30	7.96	80.0	.46	120
2.7	$\pm 20\%$	30	7.96	67.0	.49	110
3.3	$\pm 20\%$	30	7.96	61.0	.55	105
3.9	$\pm 20\%$	30	7.96	56.0	.59	100
4.7	$\pm 20\%$	30	7.96	50.0	.62	92
5.6	$\pm 20\%$	30	7.96	40.0	.63	86
6.8	$\pm 20\%$	30	7.96	32.0	.75	80
8.2	$\pm 20\%$	30	7.96	30.0	.82	75
10.0	$\pm 20\%$	50	25.2	25.0	.90	70
12.0	$\pm 10\%$	50	25.2	22.0	1.0	65
15.0	$\pm 10\%$	50	25.2	18.0	1.10	60
18.0	$\pm 10\%$	50	25.2	15.0	1.24	57
22.0	$\pm 10\%$	50	25.2	14.0	1.36	54
27.0	$\pm 10\%$	50	25.2	13.0	1.56	50
33.0	$\pm 10\%$	50	25.2	12.0	1.72	47
39.0	$\pm 10\%$	50	25.2	11.0	1.89	44
47.0	$\pm 10\%$	50	25.2	9.0	2.10	41
56.0	$\pm 10\%$	50	25.2	8.0	2.34	39
68.0	$\pm 10\%$	50	25.2	7.6	2.60	36
82.0	$\pm 10\%$	50	25.2	7.2	2.86	34
100.0	$\pm 10\%$	50	7.96	7.0	3.25	32
120.0	$\pm 10\%$	50	7.96	6.0	3.64	30
150.0	$\pm 10\%$	50	7.96	5.0	4.16	28
180.0	$\pm 10\%$	40	7.96	4.5	5.72	26
220.0	$\pm 10\%$	40	7.96	4.2	6.30	24
270.0	$\pm 10\%$	40	7.96	4.0	6.90	23
330.0	$\pm 10\%$	40	7.96	3.7	7.54	22
390.0	$\pm 10\%$	40	7.96	3.5	8.20	21
470.0	$\pm 10\%$	40	7.96	3.3	9.20	19
560.0	$\pm 10\%$	40	7.96	2.8	10.5	18
680.0	$\pm 10\%$	40	7.96	2.6	12.0	17
820.0	$\pm 10\%$	40	7.96	2.2	13.5	16
1000.0	$\pm 10\%$	40	7.96	2.0	16.0	15

DIMENSIONAL CONFIGURATIONS



HOW TO ORDER

TSC-1812	10 μ H	$\pm 10\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE