



SURFACE-MOUNT POWER INDUCTORS

SPI-T SERIES

0402T,0802T,0804T,0810T,1109T,1306T

FEATURES:

- Very Small Foot Print
- Flat-top for Pick & Place
- Increased Size Selection Guide

OPTIONS:

- Tape & Reel is Standard Bulk Packaging Available for Smaller Quantities
- Tolerance:20% is Standard
- Custom Design Available

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC to DC converters
- PDA's flash memory
- Step-up,step-down Converters

STANDARD SPECIFICATION:

Part Number	L (μH) ± 20%	DCR (Ω) Max						IDC (A) Max					
		SPI 0402T	SPI 0802T	SPI 0804T	SPI 0810T	SPI 1109T	SPI 1306T	SPI 0402T	SPI 0802T	SPI 0804T	SPI 0810T	SPI 1109T	SPI 1306T
1R0	1.0	0.05		0.009			0.011	2.90		9.0			20.00
1R5	1.5	0.05		0.010				2.60		8.0			
2R2	2.2	0.06		0.012			0.014	2.30		7.0			16.00
3R3	3.3	0.07		0.015			0.016	2.00		6.4			14.00
4R7	4.7	0.08		0.018				1.50		5.4			
5R6	5.6			0.025			0.022			5.0			12.00
6R8	6.8	0.11		0.027				1.20		4.6			
100	10	0.14	0.09	0.038	0.033	0.06	0.032	1.10	2.40	3.8	8.00	3.50	10.00
120	12					0.07						3.40	
150	15	0.20	0.12	0.046	0.042	0.08	0.036	0.90	2.00	3.0	7.00	3.10	8.00
180	18					0.09						3.00	
220	22	0.32	0.19	0.085	0.054	0.10	0.047	0.70	1.60	2.6	5.50	2.60	7.00
270	27					0.11						2.40	
330	33	0.44	0.25	0.10	0.08	0.12	0.066	0.58	1.40	2.0	4.00	2.30	5.50
390	39					0.14						2.10	
470	47	0.56	0.32	0.14	0.10	0.17	0.087	0.50	1.00	1.6	3.80	1.95	4.50
560	56					0.19						1.85	
680	68	0.75	0.55	0.20	0.17	0.22	0.13	0.40	0.90	1.4	3.00	1.65	3.50
820	82					0.25						1.50	
101	100	1.10	0.70	0.28	0.22	0.35	0.19	0.31	0.70	1.2	2.50	1.40	3.00
121	120					0.40						1.30	
151	150	1.70	1.00	0.40	0.34	0.47	0.25	0.27	0.60	1.0	2.00	1.20	2.60
181	180					0.63						1.00	
221	220	2.30	1.60	0.61	0.44	0.73	0.38	0.22	0.50	0.8	1.60	0.95	2.40
271	270					0.97						0.90	
331	330	3.30	2.20	1.02	0.70	1.15	0.56	0.18	0.40	0.6	1.20	0.80	1.90
391	390					1.30						0.75	
471	470	4.40	3.30	1.27	0.95	1.48	0.85	0.16	0.30	0.5	1.00	0.65	1.40
561	560					1.90						0.60	
681	680	6.80	4.40	2.02	1.20	2.45	1.2	0.14	0.20	0.4	1.00	0.50	1.20
821	820					2.55						0.48	
102	1000	12.00	7.00	3.00	2.00	3.00	1.8	0.10	0.10	0.3	0.80	0.46	1.00
122	1200					3.50						0.35	

TECHNICAL INFORMATION:

- measuring Frequency(L):1KHz,0.1Vrms,HP4284A
- Operating Temperature:-40°C to+85°C
- Storage Temperature: -40°C to +105°C
- Solder methods: Vapor Phase,Infrared Reflow
- Resistance to soldering heat:260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance

Note: All specifications subject to change without notice.

PHYSICAL CHARACTERISTICS

Outline drawings refer to next Page