

SHIELDED SURFACE-MOUNT POWER INDUCTORS

SPI-S SERIES

0402,0802,0804,1306



FEATURES:

- Current up to 8A
- Very Small Foot Print
- Flat-top for Pick & Place

OPTIONS:

- Tape & Reel is Standard
Bulk Packaging Available for Smaller Quantities
- Tolerance: 10% and 20% is Standard
- Custom Design Available

COMMON APPLICATIONS:

- Ideal for Palm-Top and Laptop DC-DC Converters
- PDA's Flash Memory
- Step-up, Step-down Converters

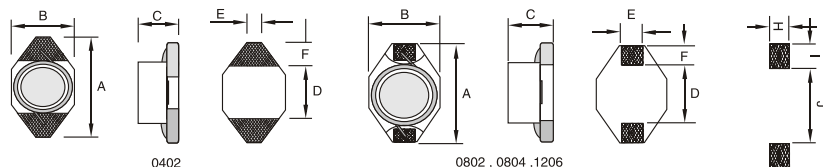
ELECTRICAL CHARACTERISTICS:

Part Number	L (μH) ± 20%	DCR (Ω) Max				IDC (A) Max			
		SPI 0402S	SPI 0802S	SPI 0804S	SPI 1306S	SPI 0402S	SPI 0802S	SPI 0804S	SPI 1206S
1R0	1.0	0.040		0.021		3.0		5.0	
1R5	1.5	0.045	0.038	0.022		2.8	4.00	4.5	
2R2	2.2	0.050	0.045	0.032		1.8	3.50	3.8	
3R3	3.3	0.055	0.062	0.039		1.6	3.00	3.3	
4R7	4.7	0.060	0.78	0.054		1.4	2.50	2.7	
6R8	6.8	0.065	0.10	0.075		1.2	2.20	2.2	
100	10	0.075	0.145	0.101	0.040	1.0	2.00	2.0	3.9
150	15	0.090	0.20	0.150	0.048	0.80	1.50	1.5	3.4
220	22	0.11	0.30	0.207	0.059	0.70	1.30	1.3	3.1
330	33	0.19	0.45	0.334	0.075	0.60	1.10	1.1	2.8
470	47	0.23	0.65	0.472	0.097	0.50	0.80	0.80	2.4
680	68	0.29	0.80		0.138	0.40	0.70		2.0
101	100	0.48	1.40		0.207	0.30	0.60		1.7
151	150	0.59	1.80		0.293	0.26	0.50		1.3
221	220	0.90	2.20		0.470	0.22	0.40		1.1
331	330	1.40	3.60		0.780	0.20	0.30		0.86
471	470	1.80	5.10		1.08	0.19	0.20		0.73
681	680	2.20			1.40	0.18			0.64
102	100	3.40			2.01	0.15			0.53
152	1500	4.20				0.12			
222	2200	8.50				0.10			
332	3300	11.0				0.08			
472	4700	13.9				0.06			
682	6800	25.0				0.04			
103	10000	32.8				0.02			

TECHNICAL INFORMATION:

- Testing: (Equivalent acceptable)
Inductance: HP4285A
RDC: QuadTech 1880 Milliohmeter
-Q- HP4342A - SRF-HP4191A
 - IDC Max: Determined when superimposed
DC current is decreased 10% against its initial value
 - 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 specification subject to change without noticed.

PHYSICAL CHARACTERISTICS



DIMENSION: (mm)

Part number	A	B	C	D	E	F	H	I	J
SPI-0402S	6.60	4.45	2.92	4.32	1.27	1.02	3.56	1.4	4.06
SPI-0802S	12.7	10.1	2.70	7.6	2.2	2.4	2.8	3.0	7.3
SPI-0804S	12.95	9.40	5.08	7.62	2.54	2.54	2.79	2.92	7.37
SPI-1306S	18.54	15.24	7.62	12.70	2.54	2.54	2.79	2.92	12.45