



MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS  
**ASPI-S SERIES**  
 0403S, 0703S, 0704S, 1004S, 1205S, 1207S, 1306S

PHYSICAL CHARACTERISTICS		Dimensions: Inches/ mm		
Part Numbers				
ASPI-0403S-XXX				
ASPI-0703S-XXX				
ASPI-0704S-XXX				
ASPI- 1004S-XXX				
ASPI-1205S-XXX				
ASPI-1207S-XXX				
ASPI-1306S-XXX				

Tolerance: X.XX = ± 0.030, X.XXX = 0.005

# MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

## ASPI-S SERIES

0403S, 0703S, 0704S, 1004S, 1205S, 1207S, 1306S



### FEATURES:

- Magnetic Shielding
- 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 SPECIFICATIONS

Part Number	L (μH) ±20%	DCR (Ω Max)							I <sub>dc</sub> (A Max)						
		ASPI 0403S	ASPI 0703S	ASP 0704S	ASPI 1004S	ASPI 1205S	ASPI 1207S	ASPI 1306S	ASPI 0403S	ASPI 0703S	ASPI 0704S	ASPI 1004S	ASPI 1205S	ASPI 1207S	ASPI 1306S
1R0	1.0	0.040							3.0						
1R0	1.2						0.007							9.80	
1R3	1.3					0.012						8.00			
1R5	1.5	0.045							2.8						
2R1	2.1					0.014						7.00			
2R2	2.2	0.050							1.8						
2R4	2.4						0.012						8.00		
3R1	3.1					0.017						6.00			
3R3	3.3	0.055							1.6					7.50	
3R5	3.5						0.014								
4R4	4.4					0.020						5.00			
4R7	4.7	0.060					0.016		1.4					6.80	
5R8	5.8					0.021						4.40			
6R1	6.1						0.018							6.60	
6R8	6.8	0.065							1.2						
7R6	7.6					0.024	0.020					4.20	5.90		
100	10	0.075	0.072	0.049	0.025	0.025	0.022	0.04	1.0	1.68	1.84	4.00	4.00	5.40	3.90
120	12		0.098	0.058	0.027	0.027	0.025			1.52	1.71	3.50	3.50	4.90	
150	15	0.090	0.13	0.081	0.030	0.030	0.027	0.05	0.80	1.33	1.47	3.30	3.30	4.50	3.40
180	18		0.14	0.091	0.034	0.034	0.040			1.20	1.31	3.00	3.00	3.90	
220	22	0.11	0.19	0.11	0.036	0.036	0.044	0.06	0.70	1.07	1.23	2.80	2.80	3.60	3.10
270	27		0.21	0.15	0.051	0.051	0.046			0.96	1.12	2.30	2.30	3.40	
330	33	0.19	0.24	0.17	0.057	0.057	0.065	0.08	0.60	0.91	0.96	2.10	2.10	3.00	2.80
390	39		0.32	0.23	0.068	0.068	0.073			0.77	0.91	2.00	2.00	2.75	
470	47	0.23	0.36	0.26	0.075	0.075	0.100	0.10	0.50	0.76	0.88	1.80	1.80	2.50	2.40
560	56		0.47	0.35	0.11	0.11				0.68	0.75	1.70	1.70		
680	68	0.29	0.52	0.38	0.12	0.12		0.14	0.40	0.61	0.69	1.50	1.50		2.00
820	82		0.69	0.43	0.14	0.14				0.57	0.61	1.40	1.40		
101	100	0.48	0.79	0.61	0.16	0.16		0.21	0.30	0.50	0.60	1.30	1.30		1.70
121	120		0.89	0.66	0.17	0.17				0.49	0.52	1.10	1.10		
151	150	0.59	1.27	0.88	0.23	0.23		0.03	0.26	0.43	0.46	1.00	1.00		1.30
181	180		1.45	0.98	0.29	0.29				0.39	0.42	0.90	0.90		
221	220	0.77	1.65	1.17	0.40	0.40		0.47	0.22	0.35	0.36	0.80	0.80		1.10
271	270		2.31	1.64	0.46	0.46				0.32	0.34	0.75	0.75		
331	330	1.40	2.62	1.86	0.51	0.51		0.78	0.20	0.28	0.32	0.68	0.68		0.86
391	390		2.94	2.85	0.69	0.69				0.26	0.29	0.65	0.65		
471	470	1.80	4.18	3.01	0.77	0.77		1.08	0.19	0.24	0.26	0.58	0.58		0.73
561	560		4.67	3.62	0.86	0.86				0.22	0.23	0.54	0.54		
681	680	2.20	5.73	4.63	1.20	1.20		1.40	0.18	0.19	0.22	0.48	0.48		0.64
821	820		6.54	5.20	1.34	1.34				0.18	0.20	0.43	0.43		
102	1000	3.40	9.44	6.00	1.53	1.53		2.01	0.15	0.16	0.18	0.40	0.40		0.53
152	1500	4.20							0.12						
222	2200	8.50							0.10						
332	3300	11.00							0.08						
472	4700	13.90							0.06						
682	6800	25.00							0.04						
103	10000	32.80							0.02						

### TECHNICAL INFORMATION:

- Measuring Frequency (L): 100KHz, 0.1Vrms
- Operating Temperature: 0°C to 85°C
- Storage Temperature: -55°C to 125°C

Note: All specifications subject to change without notice.



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