

MAGNETIC SHIELDED SURFACE-MOUNT POWER INDUCTORS

ASPI-S SERIES

0403S, 0703S, 0704S, 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 # - XXX	L (μH) ±20%	DCR (Ω) Max						IDC (A) Max					
		ASPI 0403S	ASPI 0703S	ASPI 0704S	ASPI 1205S	ASPI 1207S	ASPI 1306S	ASPI 0403S	ASPI 0703S	ASPI 0704S	ASPI 1205S	ASPI 1207S	ASPI 1306S
1R0	1.0	0.040						3.0					
1R2	1.2					0.007						8.00	9.80
1R3	1.3				0.012								
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					
3R5	3.5					0.014						7.50	
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	0.022	0.04	1.0	1.68	1.84	4.00	5.40	3.90
120	12		0.098	0.058	0.027	0.025			1.52	1.71	3.50	4.90	
150	15	0.090	0.13	0.081	0.030	0.027	0.05	0.80	1.33	1.47	3.30	4.50	3.40
180	18		0.14	0.091	0.034	0.040			1.20	1.31	3.00	3.90	
220	22	0.11	0.19	0.11	0.036	0.044	0.06	0.70	1.07	1.23	2.80	3.60	3.10
270	27		0.21	0.15	0.051	0.046			0.96	1.12	2.30	3.40	
330	33	0.19	0.24	0.17	0.057	0.065	0.08	0.60	0.91	0.96	2.10	3.00	2.80
390	39		0.32	0.23	0.068	0.073			0.77	0.91	2.00	2.75	
470	47	0.23	0.36	0.26	0.075	0.100	0.10	0.50	0.76	0.88	1.80	2.50	2.40
560	56		0.47	0.35	0.11				0.68	0.75	1.70		
680	68	0.29	0.52	0.38	0.12		0.14	0.40	0.61	0.69	1.50		2.00
820	82		0.69	0.43	0.14				0.57	0.61	1.40		
101	100	0.48	0.79	0.61	0.16		0.21	0.30	0.50	0.60	1.30		1.70
121	120		0.89	0.66	0.17				0.49	0.52	1.10		
151	150	0.59	1.27	0.88	0.23		0.03	0.26	0.43	0.46	1.00		1.30
181	180		1.45	0.98	0.29				0.39	0.42	0.90		
221	220	0.77	1.65	1.17	0.40		0.47	0.22	0.35	0.36	0.80		1.10
271	270		2.31	1.64	0.46				0.32	0.34	0.75		
331	330	1.40	2.62	1.86	0.51		0.78	0.20	0.28	0.32	0.68		0.86
391	390		2.94	2.85	0.69				0.26	0.29	0.65		
471	470	1.80	4.18	3.01	0.77		1.08	0.19	0.24	0.26	0.58		0.73
561	560		4.67	3.62	0.86				0.22	0.23	0.54		
681	680	2.20	5.73	4.63	1.20		1.40	0.18	0.19	0.22	0.48		0.64
821	820		6.54	5.20	1.34				0.18	0.20	0.43		
102	1000	3.40	9.44	6.00	1.53		2.01	0.15	0.16	0.18	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: -40°C to +85°C
 Coils per Reel: 2000 pcs for ASPI-0403S, others 500pcs per Reel.

Note: All specifications subject to change without notice.

OUTLINE DRAWINGS
 REFER TO PAGE 84



29 Journey • Aliso Viejo, CA 92656 • USA
 (949) 448-7070 • FAX: (949) 448-8484
 E-MAIL: abinfo@abracon.com • INTERNET ADDRESS: www.abracon.com





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

PHYSICAL CHARACTERISTICS Dimensions: (Inches)

Part Numbers	Dimensions (Inches)		
ASPI-0403S-XXX			
ASPI-0703S-XXX			
ASPI-0704S-XXX			
ASPI-1205S-XXX			
ASPI-1207S-XXX			
ASPI-1306S-XXX			

Tolerance: X.XX = ± 0.030, X.XXX = ± 0.010

SEE PAGE 83 FOR
 STANDARD SPECIFICATIONS