

SURFACE-MOUNT POWER INDUCTORS

ASPI-S SERIES : 0703S, 0704S, 104S, 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
- Tolerance: 20% is standard
- Custom design available

APPLICATIONS:

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

STANDARD SPECIFICATIONS:

Part No -XXX	L (μH) ±20%	DCR (Ω) Max						I _{DC} (A) Max					
		ASPI 0703S	ASPI 0704S	ASPI 104S	ASPI 1205S	ASPI 1207S	ASPI 1306S	ASPI 0703S	ASPI 0704S	ASPI 104S	ASPI 1205S	ASPI 1207S	ASPI 1306S
1R0	1.0			0.006		0.007				13.60		10.5	
1R2	1.2					0.007						9.80	
1R3	1.3				0.012						8.00		
1R5	1.5			0.008						10.00			
2R1	2.1				0.014						7.00		
2R2	2.2			0.010						7.60			
2R4	2.4			0.010		0.012				7.50		8.00	
2R8	2.8			0.011						7.30			
3R1	3.1				0.017						6.00		
3R3	3.3												
3R5	3.5					0.014						7.50	
3R8	3.8			0.013						6.00			
4R4	4.4				0.020						5.00		
4R7	4.7					0.016						6.80	
5R2	5.2			0.022						5.50			
5R8	5.8				0.021						4.40		
6R1	6.1					0.018						6.60	
6R8	6.8												
7R0	7.0			0.027						4.80			
7R6	7.6				0.024	0.020					4.20	5.90	
100	10	0.072	0.049	0.035	0.025	0.022	0.04	1.68	1.84	4.40	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	0.13	0.081	0.050	0.030	0.027	0.05	1.33	1.47	3.60	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	0.19	0.11	0.073	0.036	0.044	0.06	1.07	1.23	2.90	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	0.24	0.17	0.093	0.057	0.065	0.08	0.91	0.96	2.30	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	0.36	0.26	0.128	0.075	0.100	0.10	0.76	0.88	2.10	1.80	2.50	2.40
560	56	0.47	0.35		0.11			0.68	0.75		1.70		
680	68	0.52	0.38	0.213	0.12		0.14	0.61	0.69	1.50	1.50		2.00
820	82	0.69	0.43		0.14			0.57	0.61		1.40		
101	100	0.79	0.61	0.304	0.16	0.13	0.21	0.50	0.60	1.35	1.30	1.60	1.70
121	120	0.89	0.66		0.17			0.49	0.52		1.10		
151	150	1.27	0.88	0.506	0.23		0.30	0.43	0.46	1.15	1.00		1.30
181	180	1.45	0.98		0.29			0.39	0.42		0.90		
221	220	1.65	1.17	0.756	0.40		0.47	0.35	0.36	0.92	0.80		1.10
271	270	2.31	1.64		0.46			0.32	0.34		0.75		
331	330	2.62	1.86	1.090	0.51		0.78	0.28	0.32	0.70	0.68		0.86
391	390	2.94	2.85		0.69			0.26	0.29		0.65		
471	470	4.18	3.01		0.77	0.74	1.08	0.24	0.26		0.58	0.70	0.73
561	560	4.67	3.62		0.86			0.22	0.23		0.54		
681	680	5.73	4.63		1.20		1.40	0.19	0.22		0.48		0.64
821	820	6.54	5.20		1.34			0.18	0.20		0.43		
102	1000	9.44	6.00		1.53		2.01	0.16	0.18		0.40		0.53
152	1500												
222	2200												
332	3300												
472	4700												
682	6800												
103	10000												

TECHNICAL INFORMATION:

- Measuring Frequency (L) : 100KHz, 0.1VRMS
- Add -M for 20% tolerance, -T for tape and reel

- L drops 10% typical at IDC
- Operating Temperature: -40°C to +125°C

Note: All specifications subject to change without notice.

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PART NUMBERS	DIMENSIONS : INCH / MM		
ASPI-0703S			
ASPI-0704S			
ASPI-104S			
ASPI-1205S			
ASPI-1207S			
ASPI-1306S			

• Tolerance: X.XX = ±0.030, X.XXX=±0.015

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