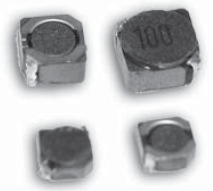


MINI SHIELDED SMT POWER INDUCTORS

ASPI SERIES : 0418S, 0428S, 0503S, 0628S, 0638S, 0703P



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) $\pm 20\%$	DCR (Ω) Max						I _{DC} (A) Max					
		ASPI 0418S	ASPI 0428S	ASPI 0503S	ASPI 0628S	ASPI 0638S	ASPI 0703P	ASPI 0418S	ASPI 0428S	ASPI 0503S	ASPI 0628S	ASPI 0638S	ASPI 0703P
R10N	0.10						0.0015						25.5
R22N	0.22						0.0020						22.0
R39N	0.39						0.0034						19.0
R62	0.62						0.0097						11.0
1R2	1.2		0.024				0.0110		2.56				10.5
1R3	1.3						0.0122						9.5
1R8	1.8		0.028						2.20				
2R2	2.2		0.031						2.04				
2R6	2.6			0.016						2.60			
2R7	2.7		0.043						1.60				
3R0	3.0			0.024	0.024					2.40	3.00		
3R3	3.3		0.049			0.020			1.57			3.50	
3R5	3.5												
3R9	3.9		0.065		0.027				1.44		2.60		
4R2	4.2			0.031						2.20			
4R7	4.7		0.072						1.32				
5R0	5.0				0.031	0.024					2.40	2.90	
5R3	5.3			0.038						1.90			
5R6	5.6		0.101						1.17				
6R0	6.0				0.035						2.25		
6R2	6.2			0.045		0.027				1.80		2.50	
6R8	6.8		0.109						1.12				
7R3	7.3				0.054						2.10		
7R4	7.4					0.031						2.30	
8R2	8.2		0.118	0.053					1.04	1.60			
8R6	8.6				0.058						1.85		
8R7	8.7					0.034						2.20	
100	10	0.20	0.128	0.065	0.065	0.038		0.61	1.00	1.30	1.70	2.00	
120	12	0.21	0.132	0.076	0.070	0.053		0.56	0.84	1.20	1.55	1.70	
150	15	0.24	0.149	0.103	0.084	0.057		0.50	0.76	1.10	1.40	1.60	
180	18	0.34	0.166	0.110	0.095	0.092		0.48	0.72	1.00	1.32	1.50	
220	22	0.40	0.235	0.122	0.128	0.096		0.41	0.70	0.90	1.20	1.30	
270	27	0.44	0.261	0.175	0.142	0.109		0.35	0.58	0.85	1.05	1.20	
330	33	0.69	0.378	0.189	0.165	0.124		0.32	0.56	0.75	0.97	1.10	
390	39	0.71	0.384	0.212	0.210	0.138		0.30	0.50	0.70	0.86	1.00	
470	47	0.92	0.587	0.260	0.238	0.155		0.28	0.48	0.62	0.80	0.95	
560	56	1.08	0.625	0.305	0.277	0.202		0.26	0.41	0.58	0.73	0.85	
680	68	1.30	0.699	0.355	0.304	0.234		0.24	0.35	0.52	0.65	0.75	
820	82	1.56	0.915	0.463	0.390	0.324		0.22	0.32	0.46	0.60	0.70	
101	100	1.73	1.020	0.520	0.535	0.358		0.20	0.29	0.42	0.54	0.65	
121	120	2.39	1.270					0.10	0.27				
151	150	2.67	1.350					0.15	0.24				
181	180	4.00	1.540	1.15				0.14	0.22	0.30			
471	470			2.69						0.20			

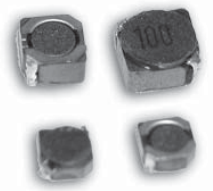
TECHNICAL INFORMATION:

- L Testing Frequency: 1KHz, 0.1V_{RMS} (except ASPI-0703P is 100KHz, 0.1V_{RMS})
- Add -M for $\pm 20\%$, N for $\pm 30\%$ inductance tolerance, -T for tape and reel
- L drops 10% typical at IDC except ASPI-0703P is 30% max

- Operating Temperature: -40°C to +85°C
 - See SCD for detail electrical and mechanical specification
- Note: All specifications subject to change without notice.

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ASPI SERIES : 0418S, 0428S, 0503S, 0628S, 0638S, 0703P



PART NUMBERS	DIMENSIONS : INCH / MM		
ASPI-0418S			
ASPI-0428S			
ASPI-0503S			
ASPI-0628S			
ASPI-0638S			
ASPI-0703P			

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

Note: All specifications subject to change without notice.