

SURFACE-MOUNT POWER INDUCTORS

ASPI SERIES : 0302, 0403, 0504, 0703, 0705, 1004, 1005



FEATURES:

- Current up to 3.8A
- 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

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 (μ H) $\pm 20\%$	DCR (Ω) Max							I _{DC} (A) Max						
		ASPI 0302	ASPI 0403	ASPI 0504	ASPI 0703	ASPI 0705	ASPI 1004	ASPI 1005	ASPI 0302	ASPI 0403	ASPI 0504	ASPI 0703	ASPI 0705	ASPI 1004	ASPI 1005
1R0	1.0	0.072	0.033						2.10	3.80					
1R2	1.2	0.078							1.70						
1R4	1.4		0.038							3.30					
1R5	1.5	0.085							1.50						
1R8	1.8	0.091	0.042						1.32	2.91					
2R2	2.2	0.104	0.047						1.28	2.60					
2R7	2.7	0.111	0.052						1.24	2.43					
3R3	3.3	0.137	0.058						1.18	2.15					
3R9	3.9	0.143	0.076						1.15	1.98					
4R7	4.7	0.170	0.094						1.04	1.70					
5R6	5.6	0.176	0.101						1.00	1.60					
6R8	6.8	0.202	0.117						0.88	1.41					
7R4	7.4	0.215							0.84						
8R2	8.2	0.228	0.132						0.78	1.26					
100	10	0.230	0.182	0.10	0.08	0.07	0.05	0.06	0.76	1.15	1.44	1.44	2.30	2.38	2.60
120	12	0.270	0.235	0.12	0.09	0.08	0.06	0.07	0.69	1.05	1.40	1.39	2.00	2.13	2.45
150	15	0.310	0.338	0.14	0.10	0.09	0.07	0.08	0.64	0.92	1.30	1.24	1.80	1.87	2.27
180	18	0.410	0.378	0.15	0.11	0.10	0.08	0.09	0.53	0.84	1.23	1.12	1.60	0.73	2.15
220	22	0.470	0.522	0.18	0.13	0.11	0.09	0.10	0.50	0.76	1.11	1.07	1.50	1.60	1.95
270	27	0.660	0.54	0.20	0.15	0.12	0.10	0.11	0.41	0.71	0.97	0.94	1.30	1.44	1.76
330	33	0.760	0.587	0.23	0.17	0.13	0.12	0.12	0.38	0.64	0.88	0.85	1.20	1.26	1.50
390	39	0.850	0.844	0.32	0.22	0.16	0.15	0.14	0.36	0.59	0.80	0.74	1.10	1.20	1.37
470	47	0.970	0.937	0.37	0.25	0.18	0.17	0.17	0.33	0.54	0.72	0.68	1.10	1.10	1.28
560	56	1.250	1.117	0.42	0.28	0.24	0.20	0.19	0.29	0.50	0.68	0.64	0.94	1.01	1.17
680	68	1.450		0.46	0.33	0.28	0.22	0.22	0.28	0.46	0.61	0.59	0.85	0.91	1.11
820	82	1.850		0.60	0.41	0.37	0.25	0.25	0.24		0.58	0.54	0.78	0.85	1.00
101	100	2.200		0.70	0.48	0.43	0.34	0.35	0.22		0.52	0.51	0.72	0.74	0.97
121	120	2.900		0.93	0.54	0.47	0.40	0.40	0.18		0.48	0.49	0.66	0.69	0.89
151	150	3.400		1.10	0.75	0.64	0.54	0.47	0.17		0.40	0.40	0.58	0.61	0.78
181	180	3.900		1.38	1.02	0.71	0.62	0.63	0.15		0.38	0.36	0.51	0.56	0.72
221	220			1.57	1.20	0.96	0.72	0.73			0.35	0.31	0.49	0.53	0.66
271	270				1.31	1.11	0.95	0.97				0.29	0.42	0.45	0.57
331	330				1.50	1.26	1.10	1.15				0.28	0.40	0.42	0.52
391	390				1.77	1.77	1.24	1.30				0.28	0.36	0.38	0.48
471	470				1.96	1.96	1.53	1.48				0.28	0.34	0.35	0.42
561	560				2.70		1.90	1.90				0.27		0.32	0.33
681	680				3.10			2.25				0.27			0.28
821	820							2.55							0.24
102	1000							3.00							0.22

TECHNICAL INFORMATION:

- Measuring Frequency (L) : 1.0~8.2 μ H (7.96MHz), 10~82 μ H (2.52MHz), 100~820 μ H (1KHz)
- Operating Temperature: -40°C to +125°C
- Storage Temperature: -55°C to +125°C
- Tolerance: Add -M=20% (Standard) to the part no.

- Add -T for tape and reel
- IDC: L drops 10% typical from initial value at IDC

Note: All specifications subject to change without notice.

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STANDARD SPECIFICATIONS:

	A	B	C	D
ASPI-0302	0.138±0.012 3,50±0,30	0.126±0.012 3,20±0,30	0.087±0.012 2,20±0,30	0.035 0,90
ASPI-0403	0.177±0.012 4,50±0,30	0.157±0.012 4,00±0,30	0.126±0.012 3,20±0,30	0.047 1,20
ASPI-0504	0.228±0.012 5,80±0,30	0.205±0.012 5,20±0,30	0.177±0.016 4,50±0,40	0.051 1,30
ASPI-0703	0.307±0.012 7,80±0,30	0.276±0.012 7,00±0,30	0.138±0.020 3,50±0,50	0.083 2,10
ASPI-0705	0.307±0.012 7,80±0,30	0.276±0.012 7,00±0,30	0.197±0.020 5,00±0,50	0.083 2,10
ASPI-1004	0.394±0.012 10,00±0,30	0.354±0.012 9,00±0,12	0.165±0.020 4,20±0,50	0.083 2,10
ASPI-1005	0.394±0.012 10,00±0,30	0.354±0.016 9,00±0,40	0.197±0.020 5,40±0,40	0.083 2,10

PHYSICAL CHARACTERISTICS:

