

SURFACE-MOUNT POWER INDUCTORS

ASPI SERIES : 1306HC, 5025, 5813, 4209CD, 6215CD



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 to 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 5025	ASPI 5813	ASPI 4209CD	ASPI 6215CD	ASPI 1306HC	ASPI 5025	ASPI 5813	ASPI 4209CD	ASPI 6215CD
R47	0.47	0.0012					63			
R56	0.56									
R78	0.78					30				
1R0	1.00					27				
1R2	1.2			0.08					2.10	
1R5	1.5			0.10		25			1.90	
1R8	1.8	0.0048					22			
2R2	2.2	0.0050		0.12		20	21		1.60	
2R7	2.7					17				
3R3	3.3			0.16		17			1.30	
3R9	3.9					15				
4R7	4.7		0.17	0.20	0.15	13		1.50	1.10	1.60
5R6	5.6					12				
6R8	6.8		0.23	0.32	0.17	11		1.20	0.90	1.30
7R8	7.8					11				
8R2	8.2					10				
100	10		0.31	0.41	0.24	10		0.90	0.85	1.00
150	15			0.55	0.30	8			0.65	0.90
220	22		0.58	0.85	0.42	7		0.60	0.50	0.70
330	33		0.90	1.3	0.55	5		0.55	0.40	0.60
400	40					4.8				
470	47		0.97	1.8	0.77	4.2		0.50	0.35	0.50
600	60									
680	68		2.00	2.5	1.10	3.8		0.35	0.30	0.40
101	100		2.65	3.5	1.60	3.3		0.30	0.25	0.30
121	120									
151	150			5.0	2.50	3.0			0.18	0.25
221	220		5.50	7.0	3.65			0.20	0.16	0.22
331	330		8.40		4.65			0.16		0.18
471	470		11.2	15.0	6.75			0.12	0.13	0.14
681	680		14.2		9.15			0.10		0.12
102	1000		26.2		14.2			0.09		0.10

TECHNICAL INFORMATION:

- L Testing Frequency: 100KHz, 0.1VRMS
- Add -M for ±20% inductance tolerance, -T for tape and reel
- L drops 10% typical at IDC except ASPI-5025 is 20% typical
- 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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PART NUMBERS	DIMENSIONS : INCH / MM
ASPI-5025	Top view: 0.520 ± 0.008 / $13,20 \pm 0,20$ (width), 0.508 ± 0.008 / $12,90 \pm 0,20$ (height), 0.138 ± 0.020 / $3,50 \pm 0,50$ (thickness). Side view: 0.256 ± 0.012 / $6,50 \pm 0,30$ (length), 0.095 ± 0.0060 / $2,40 \pm 0,15$ (height). Bottom view: 0.138 ± 0.020 / $3,50 \pm 0,50$ (width), 0.095 ± 0.0060 / $2,40 \pm 0,15$ (height).
ASPI-5813	Top view: 0.205 / $5,20$ (width), 0.228 / $5,80$ (height). Side view: 0.051 / $1,30$ (length), 0.110 / $2,80$ (height). Bottom view: 0.064 / $1,62$ (width), 0.110 / $2,80$ (height).
ASPI-4209CD	Top view: 0.033 / $0,85$ (width), 0.098 / $2,50$ (height), 0.260Max / $6,60$ (length). Side view: 0.040Max / $1,00$ (length), 0.098 / $2,50$ (height). Bottom view: 0.220Max / $5,60$ (width), 0.098 / $2,50$ (height).
ASPI-6215CD	Top view: 0.047 / $1,20$ (width), 0.020 / $5,10$ (height), 0.362Max / $9,20$ (length). Side view: 0.065Max / $1,65$ (length), 0.020 / $5,10$ (height). Bottom view: 0.311Max / $7,90$ (width), 0.020 / $5,10$ (height).

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

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