

SMD UNSHIELDED LOW PROFILE POWER INDUCTOR

ASPI-XXXXHC



RoHS
Compliant



7.3 x 7.3 x 4.5mm

FEATURES:

- Miniature surface mount design
- High power, high saturation inductors with very low resistance
- Maximum power density, ideal for DC-DC conversion

APPLICATIONS:

- Notebook computers, handheld communications, LCD TV, power supply for VTRs, DC/DC converts

STANDARD SPECIFICATIONS:

Part No.	L	DC Resistance (mΩ) Max					Rated DC Current (A) Max				
		XXXX=0703	XXXX=0706	XXXX=0804	XXXX=1907	XXXX=1306	XXXX=0703	XXXX=0706	XXXX=0804	XXXX=1907	XXXX=1306
ASPI-XXXXHC	(μH)										
R47	0.47	25	10	5	3	2	6	6	10.6	16	19.2
1R0	1	50	18	6	4	3	2.9	4.4	9.3	12.5	17.3
1R5	1.5	50	20	8	6	4	2.8	4.2	8.3	10	13.4
2R2	2.2	70	37	11	8	5	2.4	3.1	7.2	9.2	12
3R3	3.3	80	43	14	9	6	2	2.9	6.5	8	11
4R7	4.7	90	55	18	12	10	1.5	2.2	5.5	6.5	8.6
6R8	6.8	130	90	27	19	15	1.4	1.7	5	5.8	8.3
100	10	160	111	38	27	20	1.1	1.5	4.3	4.3	6.8
150	15	230	175	45	32	30	1	1.2	3.5	3.9	5.5
220	22	370	255	70	50	40	0.8	1	2.8	3.1	4.5
330	33	-	367	100	69	60	-	0.82	2.1	2.4	3.7
470	47	-	474	150	109	74	-	0.72	1.7	1.9	3.1
680	68	-	750	220	156	120	-	0.58	1.5	1.6	2.4
101	100	-	1110	280	206	170	-	0.47	1.2	1.4	2

Rated DC current: the current when the inductance becomes 30% lower than its initial value or when temperature of coil increase 40°C

Operating temperature: -40~85°C

Measuring frequency: 100KHz, 0.25V

Inductance tolerance:

ASPI-0703HC: 0.47uH(P)+40~-20% ; 1.0uH~22uH(M)±20%

ASPI-0706HC, 0804HC, 1907HC, 1306HC: 0.47uH~1.5uH(P) +40~-20% ; 2.2uH~100uH(M)±20%

OPTIONS AND PART IDENTIFICATION:

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ASPI - xxxxHC - □□□□ - □

Type	
0703	7.5x5.2x3.2
0706	9.0x6.1x5.0
0804	13.2x9.9x6.35
1907	19.4x13.3x6.8
1306	22.2x15.0x8.0

Tolerance	
Please see the table for inductance value available	
N	±20%
P	+40%,-20%

Packaging (T/R)	
0703	1500pcs
0706	1000pcs
0804	750pcs
1907	350pcs
1306	250pcs



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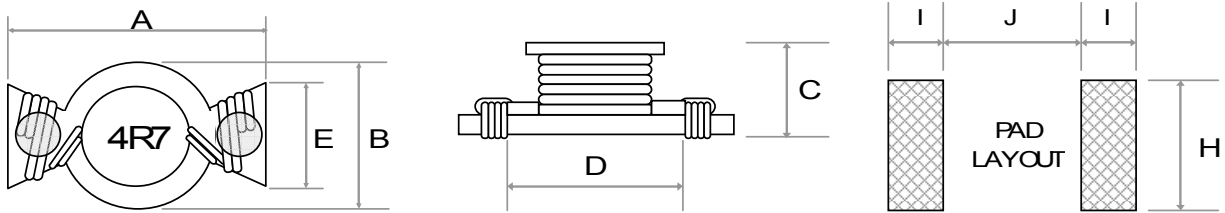


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7.3 x 7.3 x 4.5mm

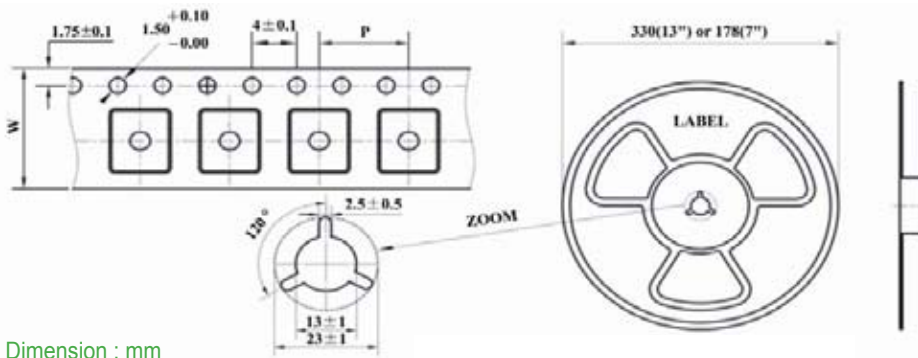
OUTLINE DRAWING:



Codes	A max	B max	C max	D	E	H	I	J
0703	7.5	5.2	3.2	4.6	2.5	4	2	4
0706	9	6.1	5	5.8	3	5	2	5
0804	13.2	9.9	6.35	9.5	4.5	6.5	2.3	9
1907	19.4	13.3	6.8	12.7	6.6	8	3.8	11.7
1306	22.2	15	8	14.6	7.7	10	4.3	13.5

Dimension : mm

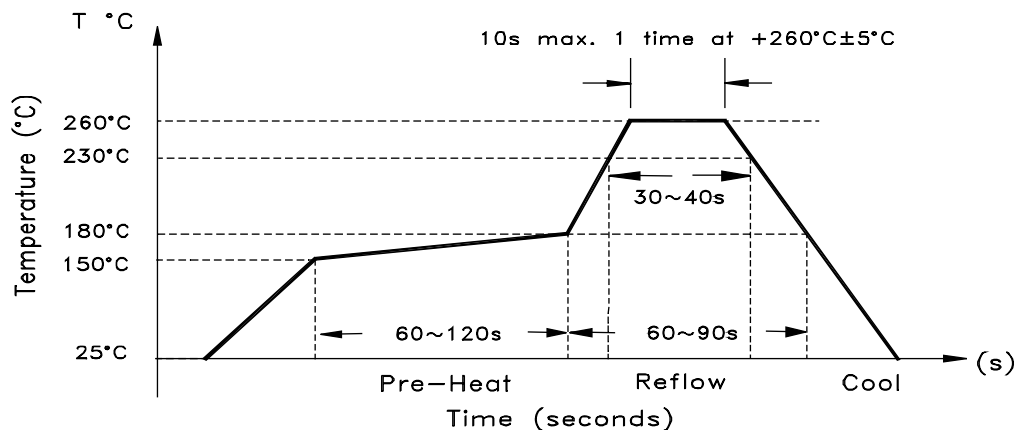
TAPE & REEL: Tape and reel 1,000pcs/reel



Dimension : mm

Series	Tape size	Parts Per Reel	
	W	P	13"
0703	16	8	1500
0706	16	8	1000
0804	24	16	750
1907	32	20	350
1306	32	20	250

REFLOW PROFILE:



NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

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