

# SMD POWER INDUCTOR



15.24 x 18.54 x 7.11 mm

ASPI-1306T

 RoHS Compliant

## FEATURES:

- Low profile, compact size
- Large Terminal surface for good PCB bonding
- Low DCR, High Energy storage, suitable for large currents
- Ideal for a variety of DC-DC converter inductor applications

## APPLICATIONS:

- Desktop, Laptop, servers
- Network hubs, bridges, routers
- Portable communication equipment
- OA equipment
- LCD, DVD, modem, set-top box
- DC/DC converters

## ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-1306T
Operating Temperature:	-40°C to +85°C
Storage Temperature:	: -40°C to +85°C

### Key Electrical Specifications at 25°C

PART NUMBER	INDUCTANCE (uH)	Tolerance	SRF (MHz) max	RDC (Ω) max	Isat (A) max	Irms (A) max
ASPI-1306T-1R0	1	M	80	0.009	20	8.6
ASPI-1306T-2R2	2.2	M	80	0.014	16	7.1
ASPI-1306T-3R3	3.3	M	60	0.015	14	6.2
ASPI-1306T-4R7	4.7	M	60	0.018	13	6
ASPI-1306T-5R6	5.6	M	40	0.02	12	5.3
ASPI-1306T-8R2	8.2	M	30	0.029	10	4.8
ASPI-1306T-100	10	M	30	0.031	10	4.3
ASPI-1306T-150	15	M	22	0.036	8	4
ASPI-1306T-220	22	M	20	0.047	7	3.5
ASPI-1306T-330	33	M	15	0.066	5.5	3
ASPI-1306T-470	47	M	9	0.086	4.5	2.6
ASPI-1306T-680	68	M	8	0.13	3.5	2.3
ASPI-1306T-750	75	M	8	0.152	3	2.3
ASPI-1306T-101	100	M	7	0.19	3	1.8
ASPI-1306T-151	150	M	6	0.25	2.6	1.5
ASPI-1306T-221	220	M	5	0.38	2.4	1.2
ASPI-1306T-331	330	M	4	0.56	1.9	1
ASPI-1306T-471	470	M	3	0.85	1.4	0.82
ASPI-1306T-681	680	M	2.5	1.10	1.2	0.72
ASPI-1306T-102	1000	M	2	1.80	1	0.56

### Test Conditions

**Inductance:** 100kHz, 0.1V

**Isat:**  $\Delta L/L$  (initial)  $\leq 10\%$

**Irms:**  $\Delta T \leq 40^\circ\text{C}$

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## OPTIONS AND PART IDENTIFICATION

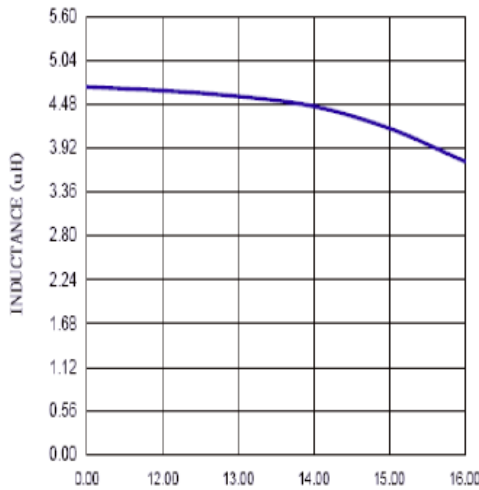
ASPI-1306T -   -

**Inductance Code**  
Please refer to the table above

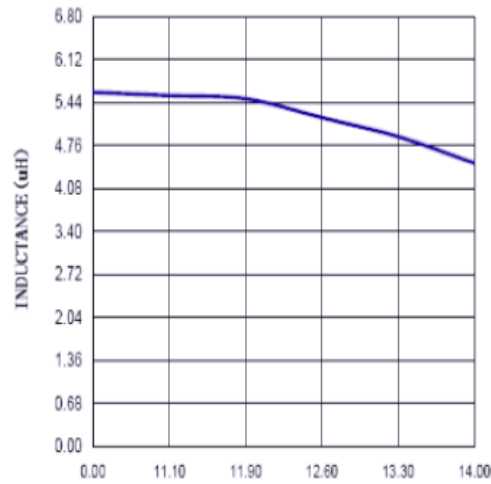
**Tolerance %**  
M:  $\pm 20\%$

**Packaging**  
T: Tape and Reel  
(500pcs / reel)

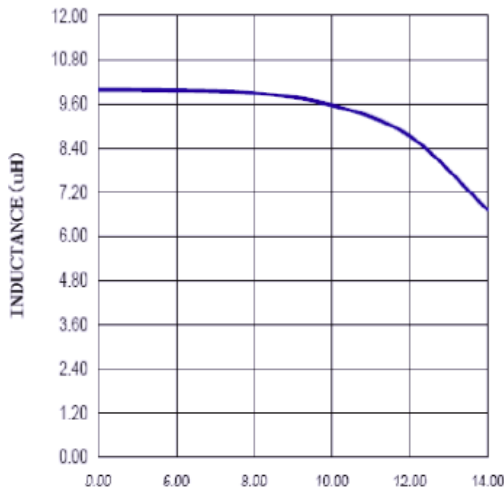
## ELECTRICAL CHARACTERISTICS CURVES



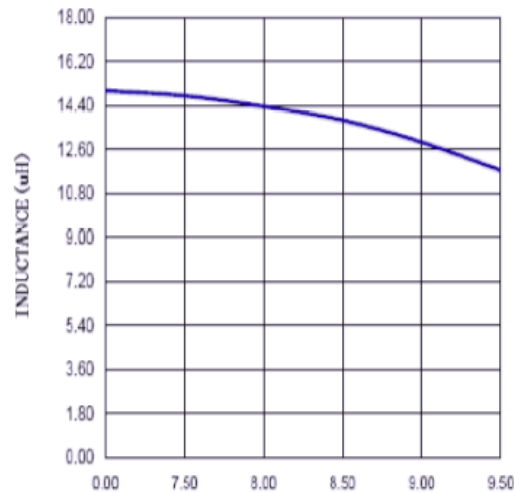
CURRENT (A)  
ASPI-1306T-4R7M



CURRENT (A)  
ASPI-1306T-5R6M



CURRENT (A)  
ASPI-1306T-100M



CURRENT (A)  
ASPI-1306T-150M

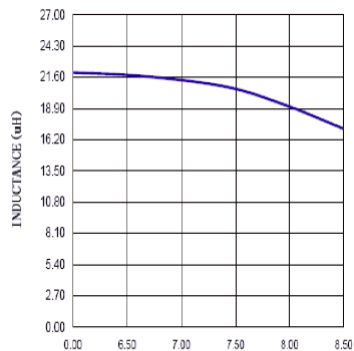
# SMD POWER INDUCTOR



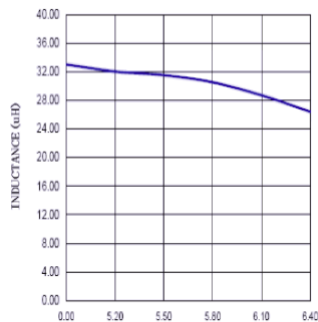
15.24 x 18.54 x 7.11 mm

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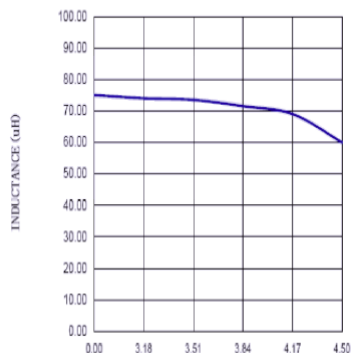
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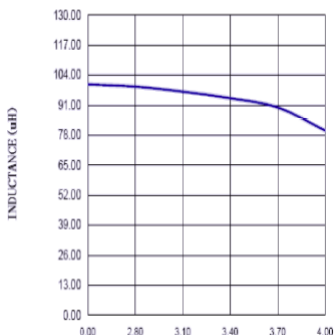
CURRENT (A)  
ASPI-1306T-220M



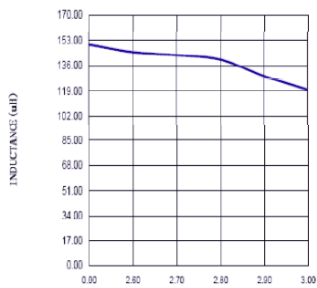
CURRENT (A)  
ASPI-1306T-330M



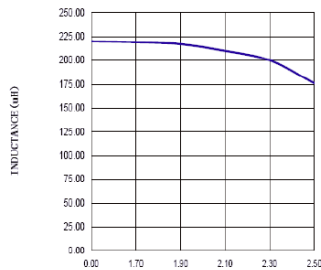
CURRENT (A)  
ASPI-1306T-750M



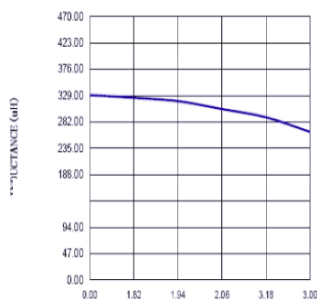
CURRENT (A)  
ASPI-1306T-101M



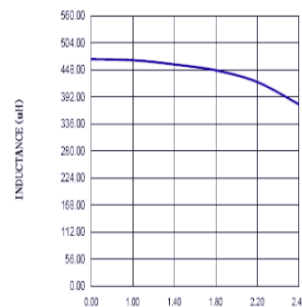
CURRENT (A)  
ASPI-1306T-151M



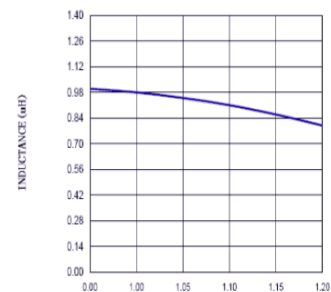
CURRENT (A)  
ASPI-1306T-221M



CURRENT (A)  
ASPI-1306T-331M



CURRENT (A)  
ASPI-1306T-471M



CURRENT (A)  
ASPI-1306T-102M

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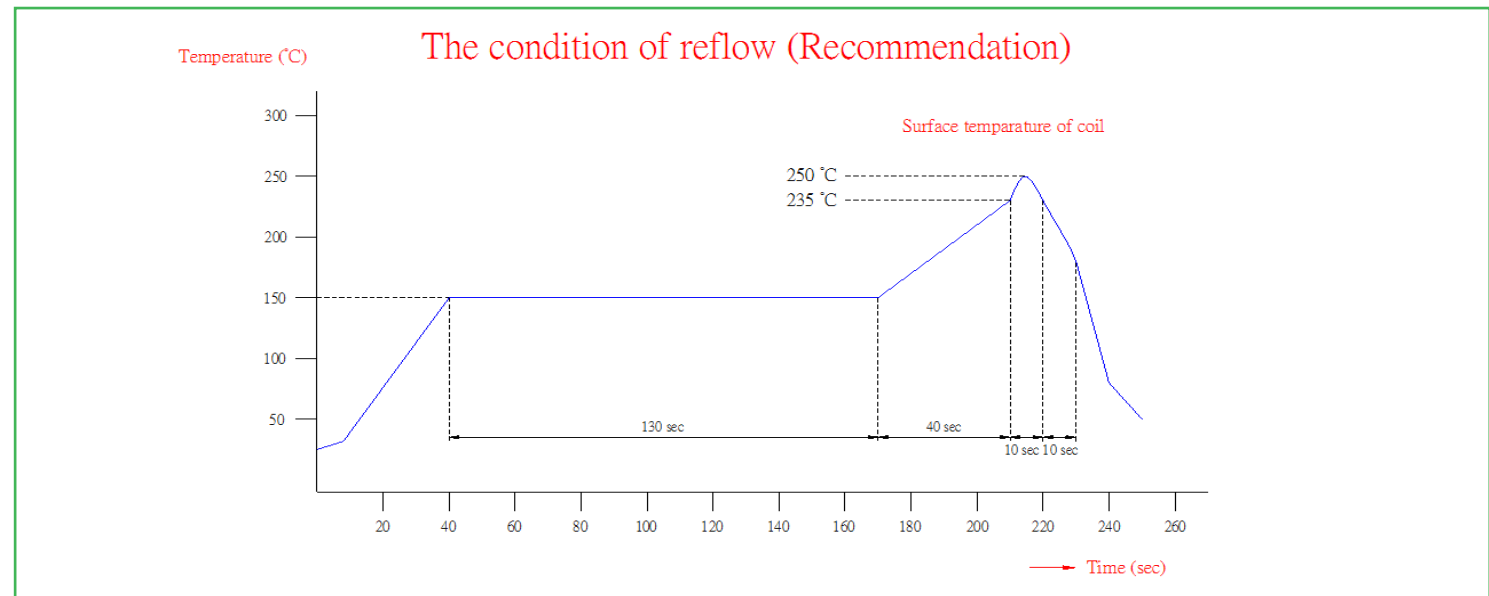
15.24 x 18.54 x 7.11 mm

## OUTLINE DIMENSION:

	DIM.	TOL.
A	18.54	Max.
B	15.24	Max.
C	7.11	Max.
D	12.70	±0.3
E	2.54	±0.3
F	12.70	±0.3
G	2.54	±0.3

**Dimension: mm**

## REFLOW PROFILE:



# SMD POWER INDUCTOR



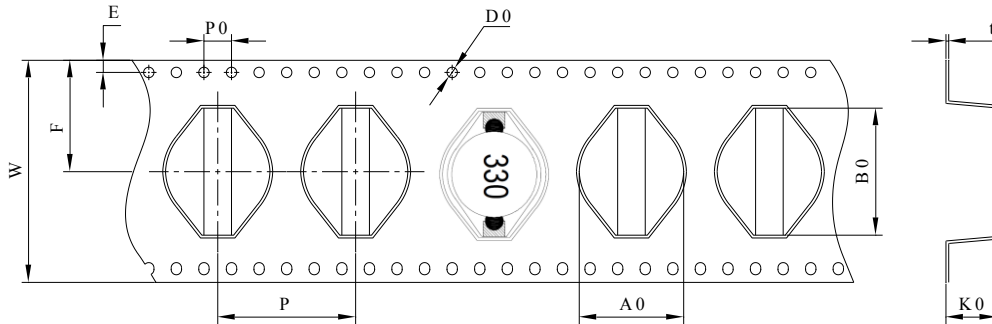
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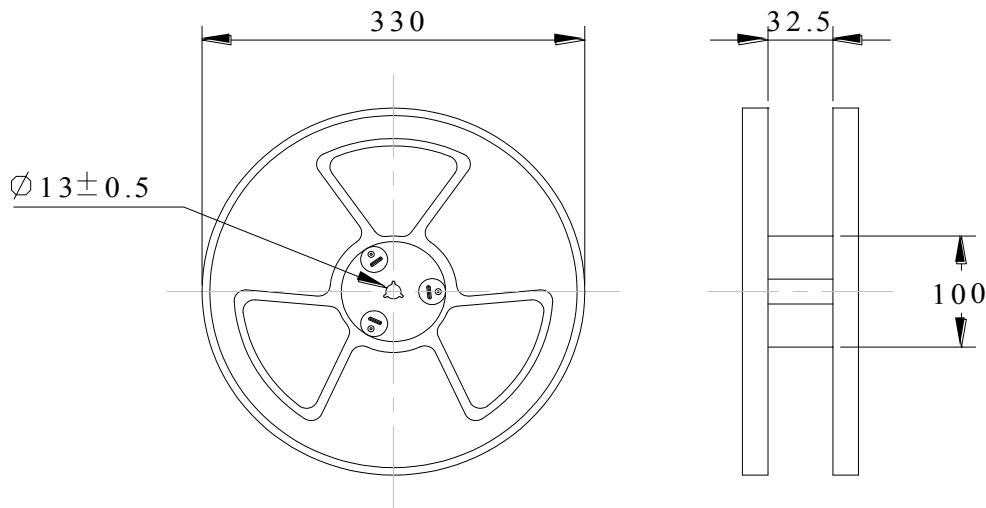
RoHS Compliant

## TAPE & REEL

T: 500pcs / reel



W	E	F	P	A0	B0	D0	P0	K0	t
32±0.3	1.75±0.1	16.25±0.1	20.0±0.1	15.5±0.1	19.5±0.1	1.5±0.1	4.0±0.1	7.1±0.1	0.3±0.05



Dimension: mm

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