

SMD POWER INDUCTOR

ASPI-1306T



RoHS Compliant

15.24 x 18.54 x 7.11 mm



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:

Abrakon P/N:	ASPI-1306T
Operating Temperature:	-40°C to +125°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

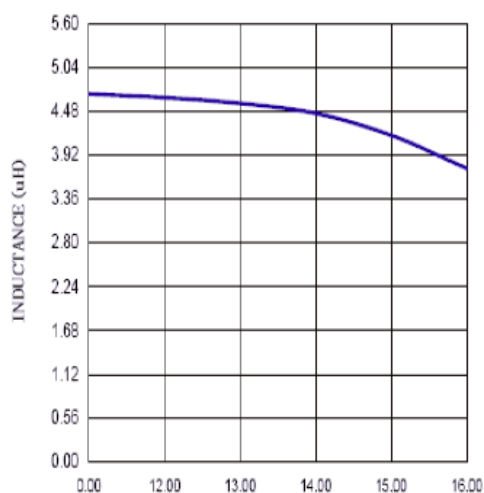
Tolerance %

M: $\pm 20\%$

Packaging

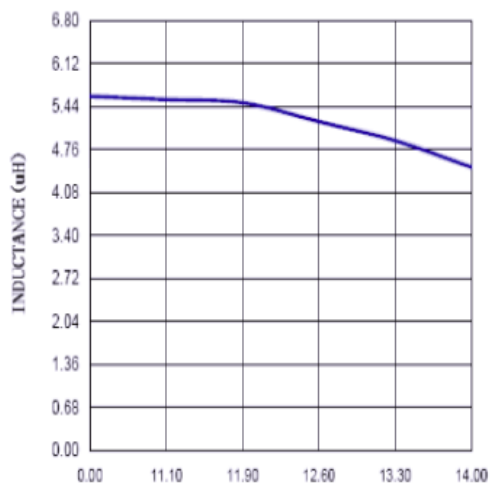
T: Tape and Reel
(500pcs / reel)

➤ ELECTRICAL CHARACTERISTICS CURVES



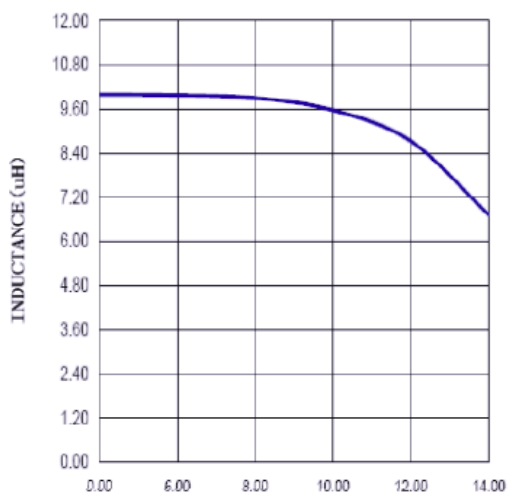
CURRENT (A)

ASPI-1306T-4R7M



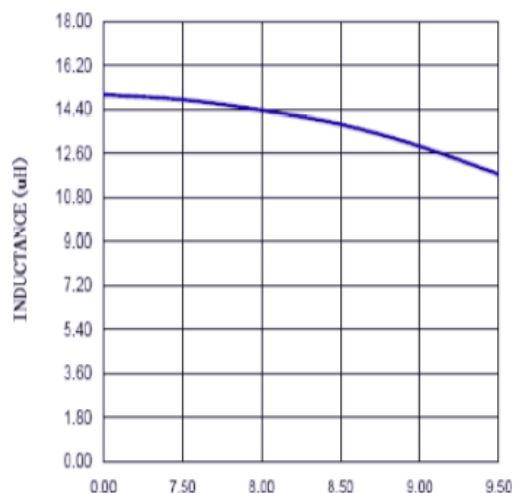
CURRENT (A)

ASPI-1306T-5R6M



CURRENT (A)

ASPI-1306T-100M



CURRENT (A)

ASPI-1306T-150M

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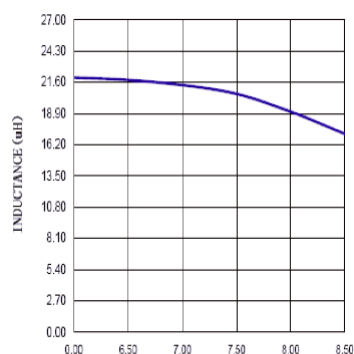
ASPI-1306T



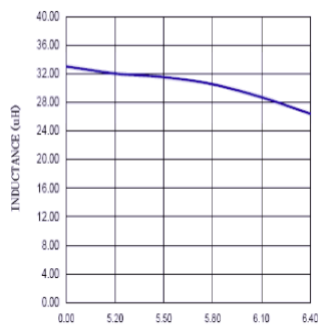
RoHS Compliant



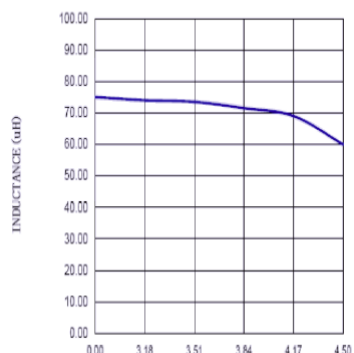
15.24 x 18.54 x 7.11 mm



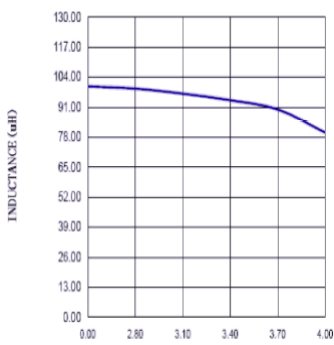
CURRENT (A)
ASPI-1306T-220M



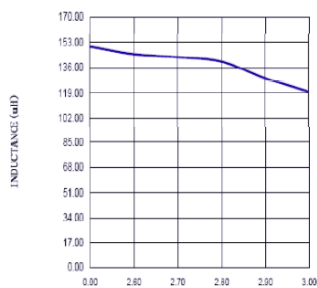
CURRENT (A)
ASPI-1306T-330M



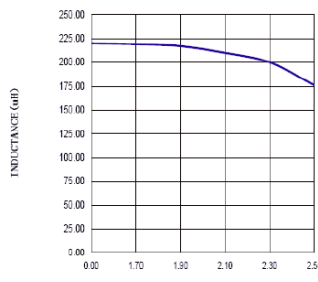
CURRENT (A)
ASPI-1306T-750M



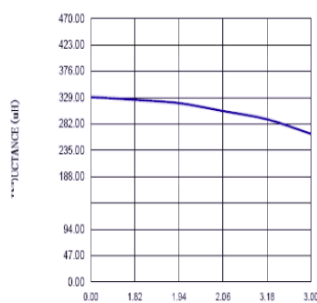
CURRENT (A)
ASPI-1306T-101M



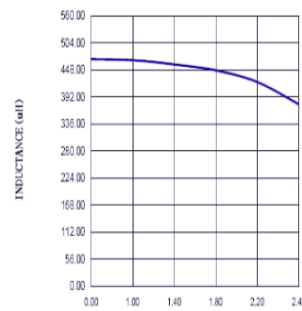
CURRENT (A)
ASPI-1306T-151M



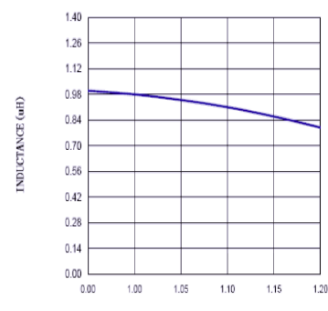
CURRENT (A)
ASPI-1306T-221M



CURRENT (A)
ASPI-1306T-331M



CURRENT (A)
ASPI-1306T-471M



CURRENT (A)
ASPI-1306T-102M

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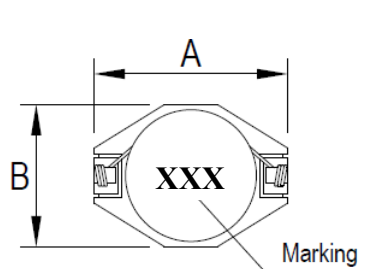


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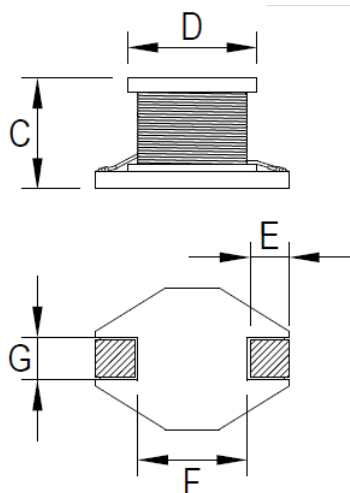


15.24 x 18.54 x 7.11 mm

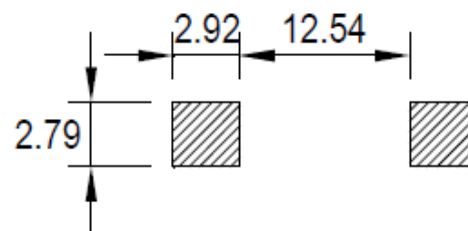
OUTLINE DIMENSION:



	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



Recommended Land Pattern

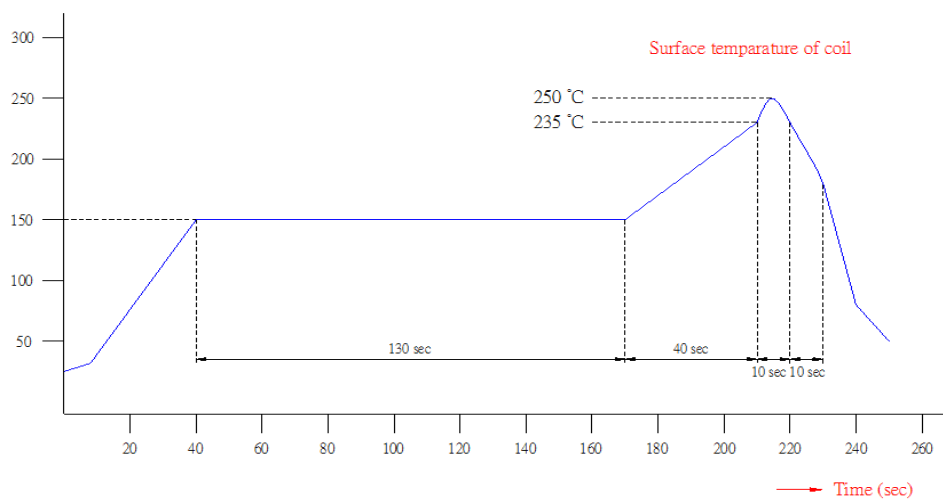


Dimension: mm

REFLOW PROFILE:

Temperature (°C)

The condition of reflow (Recommendation)



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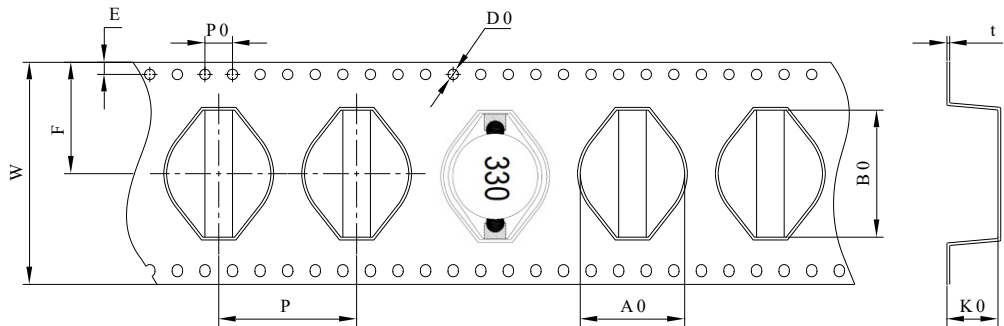
RoHS Compliant



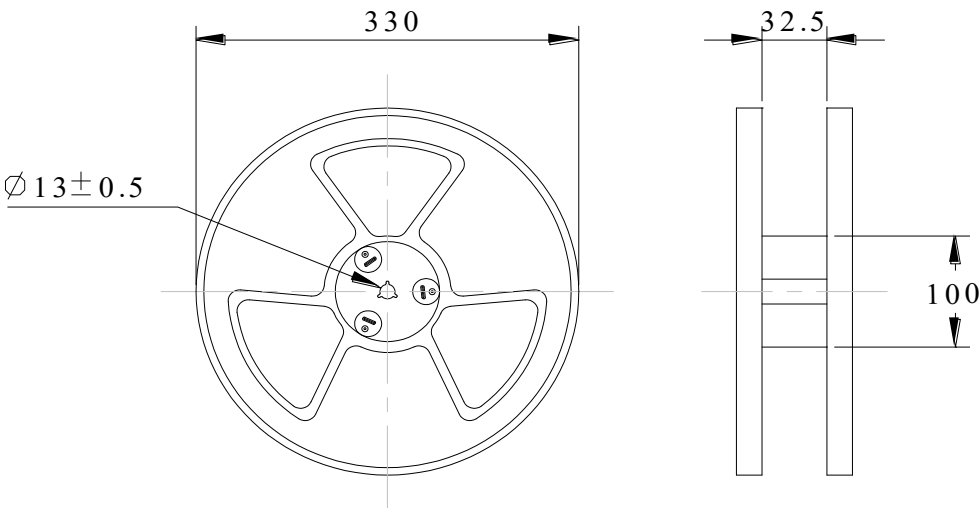
15.24 x 18.54 x 7.11 mm

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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