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:	-40ºC to +125ºC
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: ΔL/L (initial) ≤ 10%
Irms: ΔT ≤ 40˚C

ABRACON LLC
5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 06-3-20

ABRACON IS ISO9001-2015 CERTIFIED

SMD POWER INDUCTOR

ASPI-1306T

RoHS Compliant



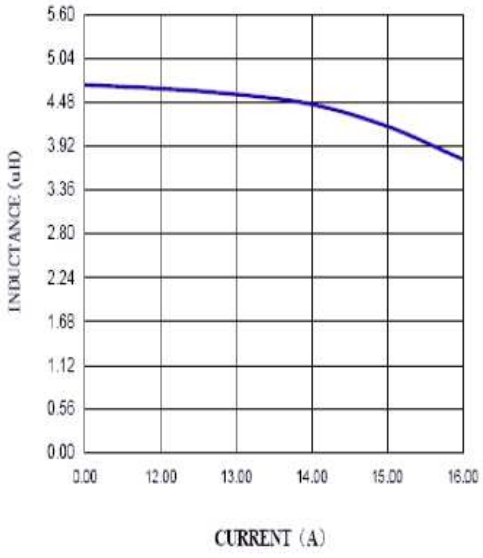
15.24 x 18.54 x 7.11 mm

OPTIONS AND PART IDENTIFICATION

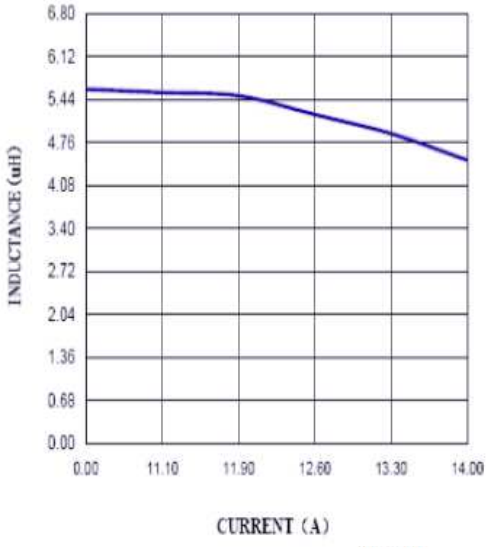
ASPI-1306T - ☐ ☐ - ☐

Inductance Code	Tolerance %	Packaging
Please refer to the table above	M: ± 20%	T: Tape and Reel (500pcs / reel)

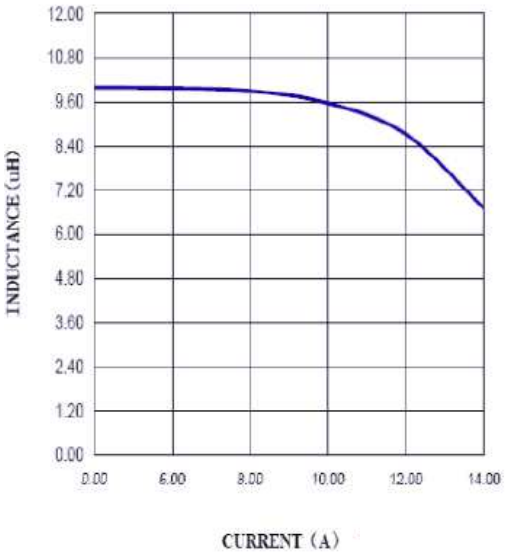
ELECTRICAL CHARACTERISTICS CURVES



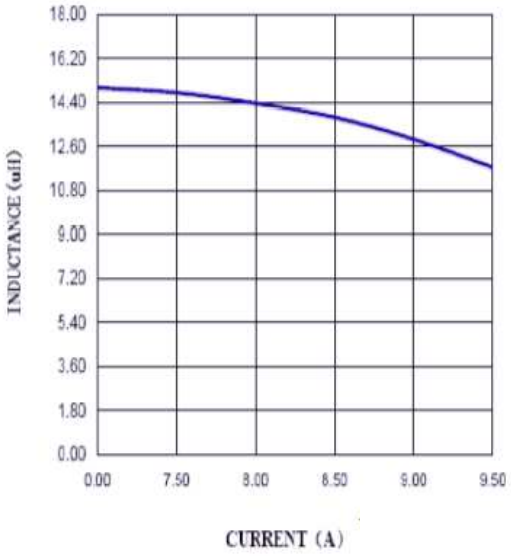
ASPI-1306T-4R7M



ASPI-1306T-5R6M



ASPI-1306T-100M



ASPI-1306T-150M

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 06-3-20

ABRACON IS ISO9001-2015 CERTIFIED

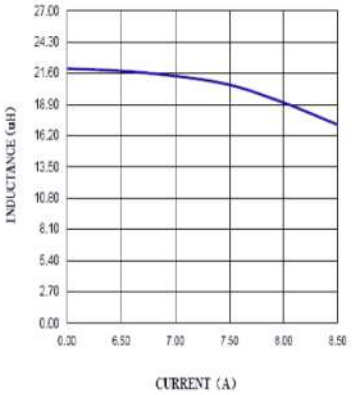
SMD POWER INDUCTOR

ASPI-1306T

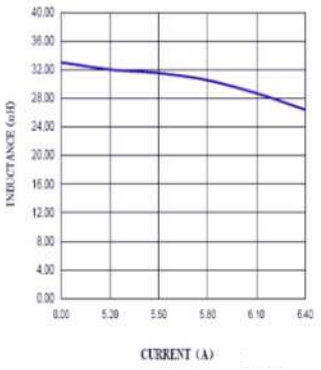


RoHS Compliant

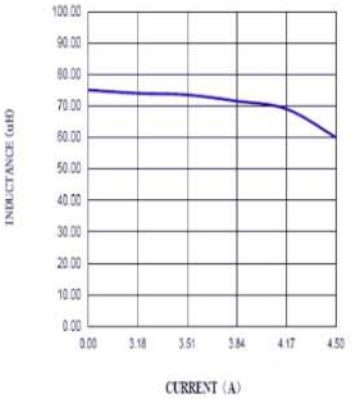
15.24 x 18.54 x 7.11 mm



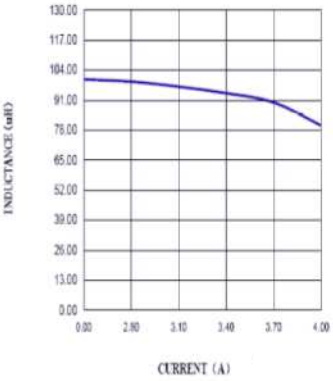
ASPI-1306T-220M



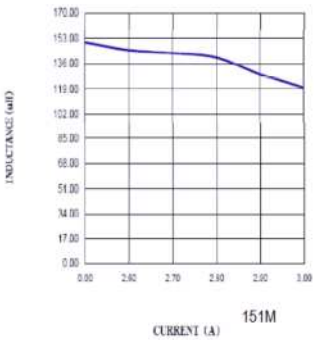
ASPI-1306T-330M



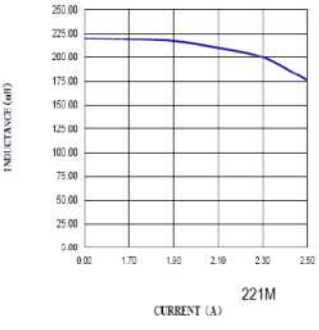
ASPI-1306T-750M



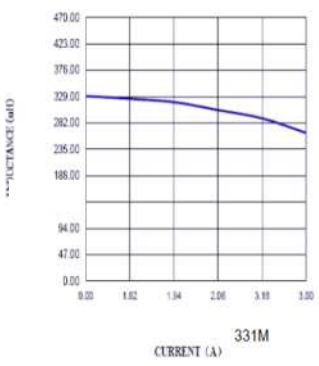
ASPI-1306T-101M



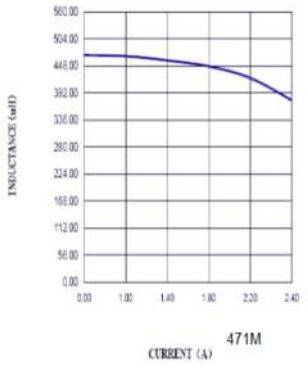
ASPI-1306T-151M



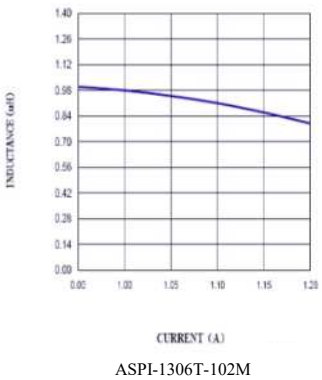
ASPI-1306T-221M



ASPI-1306T-331M



ASPI-1306T-471M



ASPI-1306T-102M

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 06-3-20

ABRACON IS
ISO9001-2015
CERTIFIED

SMD POWER INDUCTOR

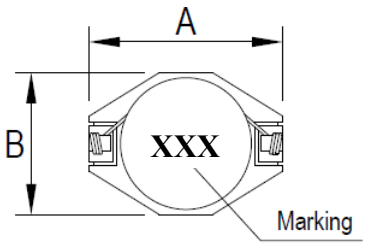
ASPI-1306T

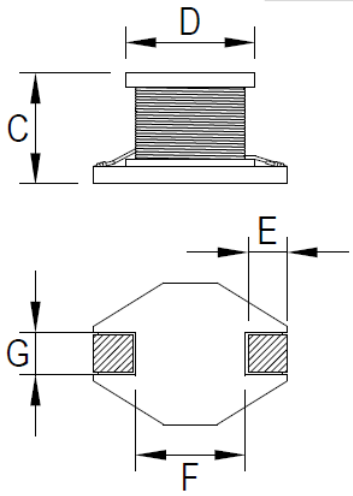
RoHS Compliant



15.24 x 18.54 x 7.11 mm

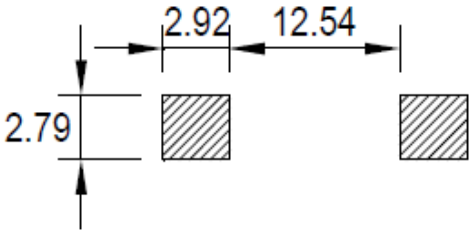
OUTLINE DIMENSION:





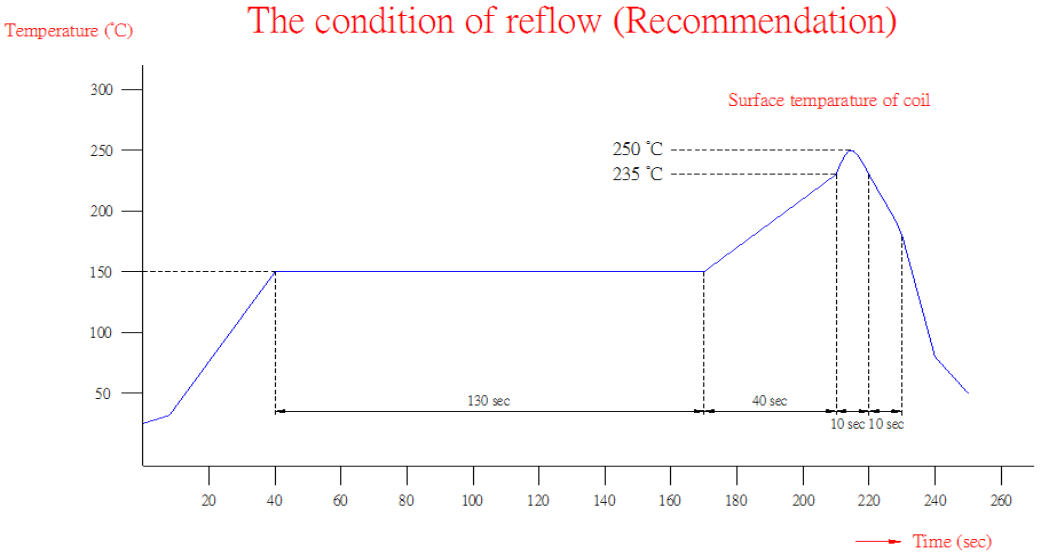
	DIM.	TOL.
A	18.54	Max.
B	15.24	Max.
C	7.11	Max.
D	12.70	±0.3
E	2.54	±0.3
F	12.70	±0.3
G	2.54	±0.3

Recommended Land Pattern



Dimension: mm

REFLOW PROFILE:



ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 06-3-20

ABRACON IS
ISO9001-2015
CERTIFIED

SMD POWER INDUCTOR

ASPI-1306T

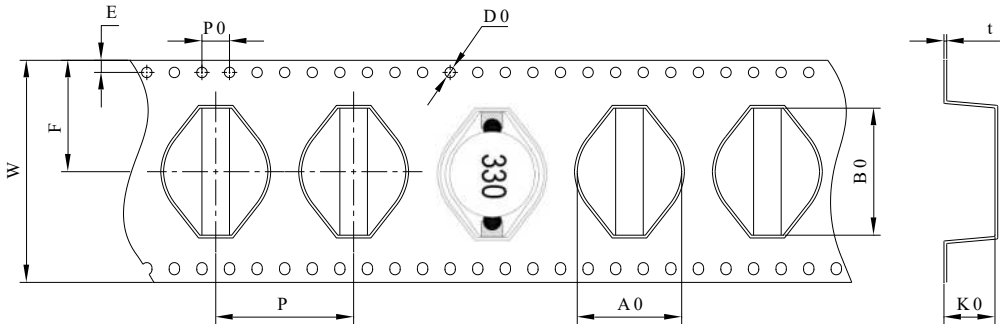


RoHS Compliant

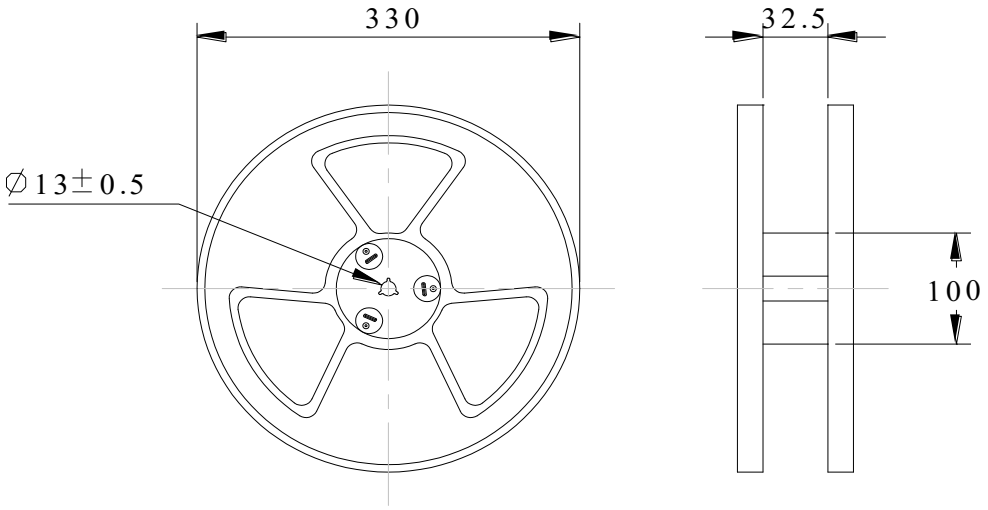
15.24 x 18.54 x 7.11 mm

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

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.

ABRACON LLC

5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 06-3-20

ABRACON IS ISO9001-2015 CERTIFIED