

# ASPI-1306T-2R2M-T Datasheet



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DiGi Electronics Part Number	ASPI-1306T-2R2M-T-DG
Manufacturer	<a href="#">Abracon LLC</a>
Manufacturer Product Number	ASPI-1306T-2R2M-T
Description	FIXED IND 2.2UH 7.1A 14 MOHM SMD
Detailed Description	2.2 $\mu$ H Unshielded Drum Core, Wirewound Inductor 7.1 A 14mOhm Max Nonstandard



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## Purchase and inquiry

Manufacturer Product Number:

ASPI-1306T-2R2M-T

Series:

ASPI-1306T

Type:

Drum Core, Wirewound

Inductance:

2.2  $\mu$ H

Current Rating (Amps):

7.1 A

Shielding:

Unshielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Package / Case:

Nonstandard

Size / Dimension:

0.730" L x 0.600" W (18.54mm x 15.24mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

16A

DC Resistance (DCR):

14mOhm Max

Frequency - Self Resonant:

80MHz

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.280" (7.11mm)

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8504.50.8000

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



# SMD POWER INDUCTOR

ASPI-1306T-2R2M-T Abracon LLC FIXED IND 2.2UH 7.1A 14 MOHM SMD



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 +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:** ΔL/L (initial) ≤ 10%

**Irms:** ΔT ≤ 40°C

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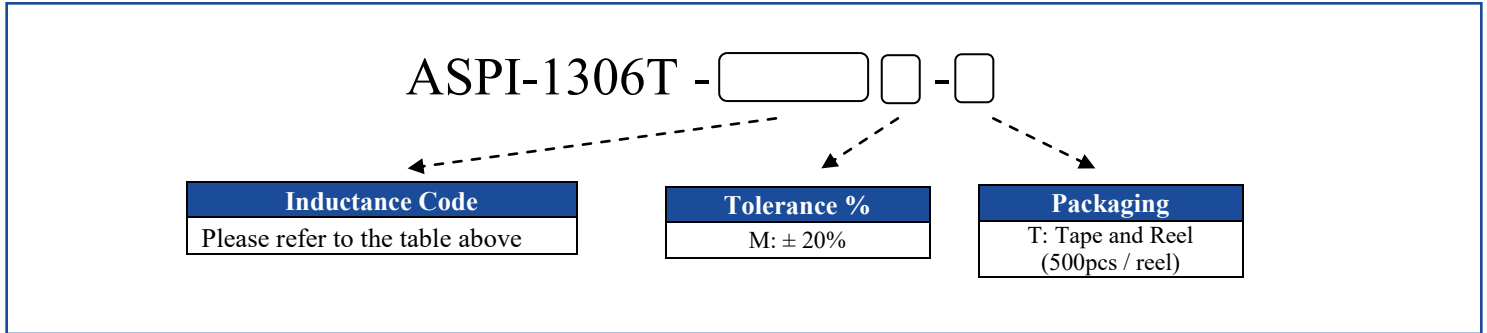


15.24 x 18.54 x 7.11 mm

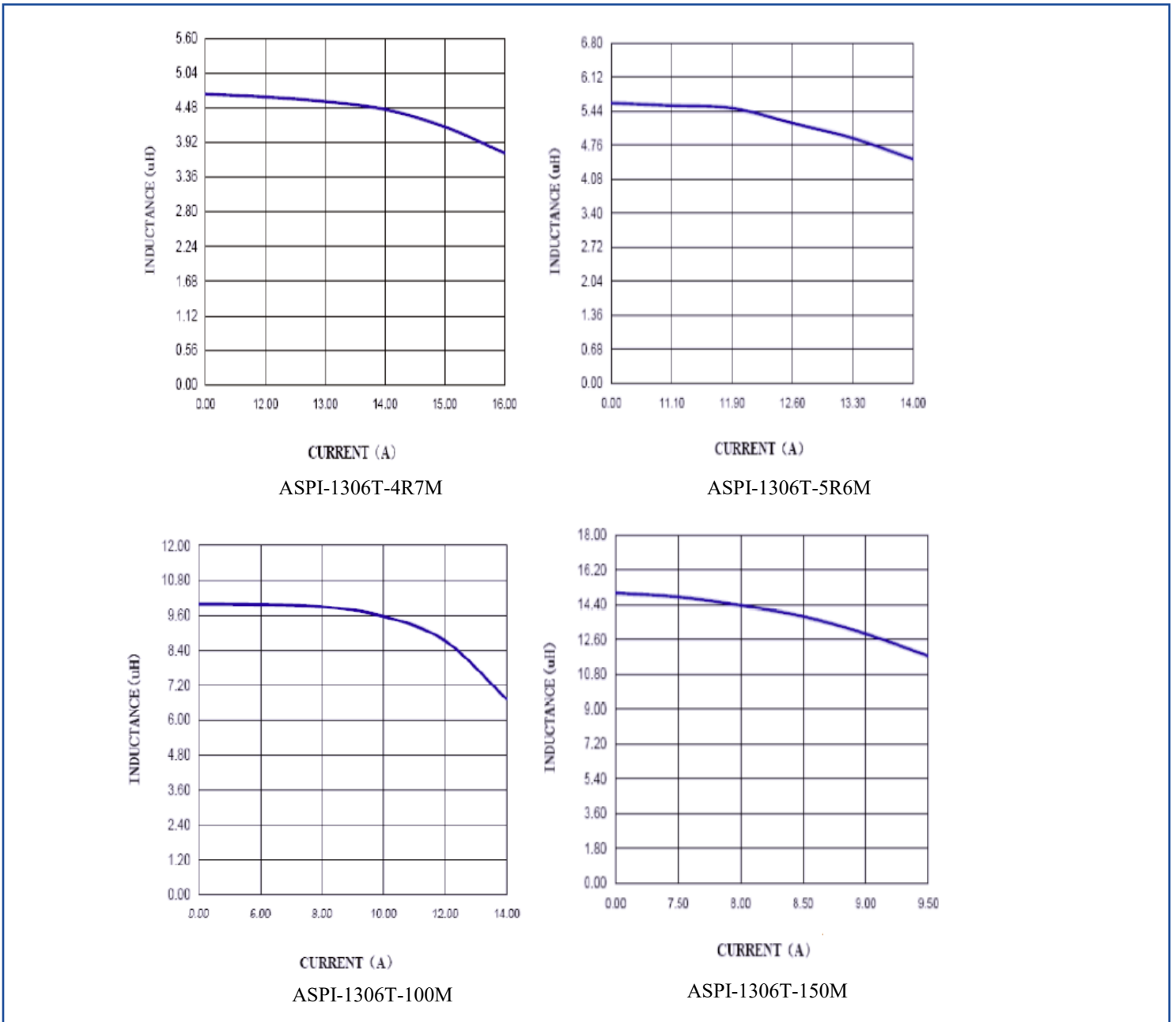
ASPI-1306T

RoHS Compliant

## ➤ OPTIONS AND PART IDENTIFICATION



## ➤ ELECTRICAL CHARACTERISTICS CURVES



# SMD POWER INDUCTOR

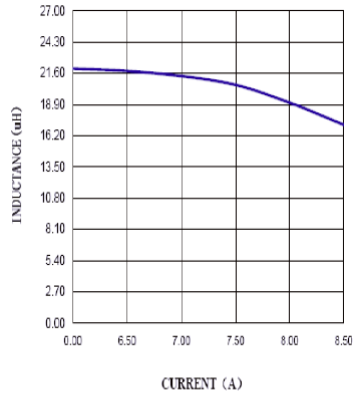
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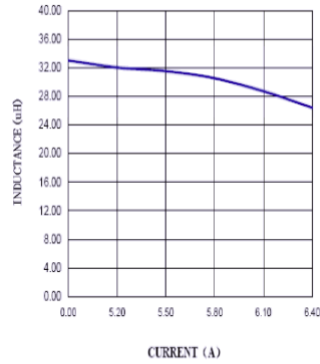
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ASPI-1306T

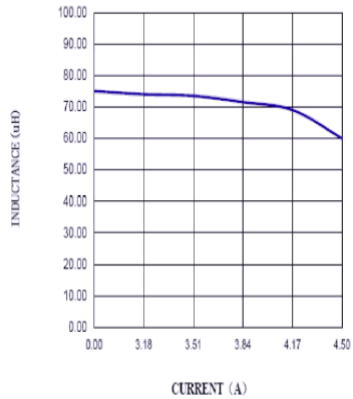
RoHS Compliant



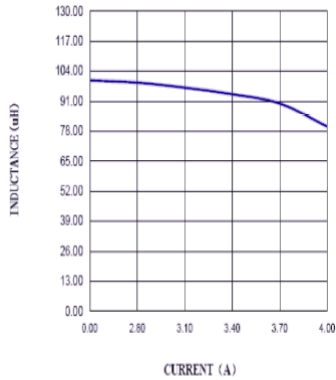
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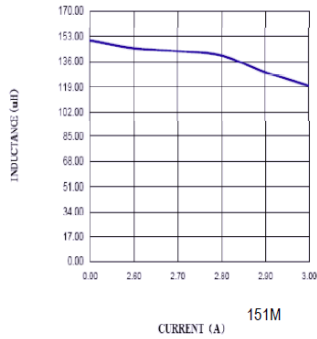
ASPI-1306T-330M



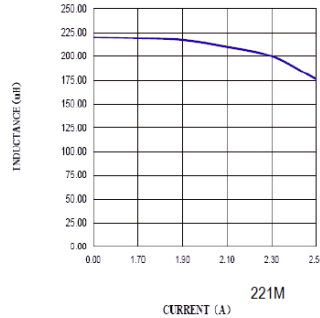
ASPI-1306T-750M



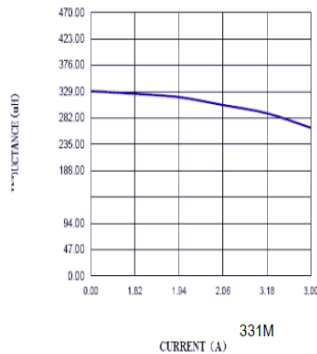
ASPI-1306T-101M



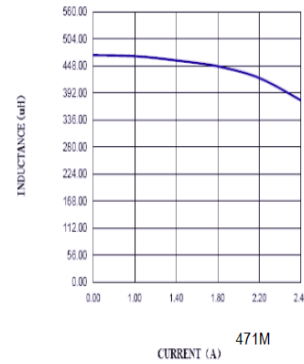
ASPI-1306T-151M



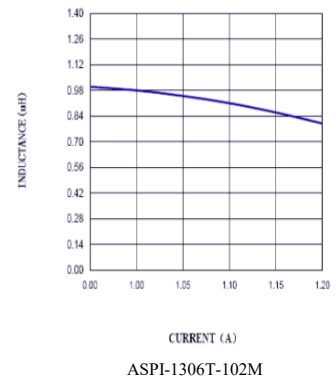
ASPI-1306T-221M



ASPI-1306T-331M



ASPI-1306T-471M



ASPI-1306T-102M

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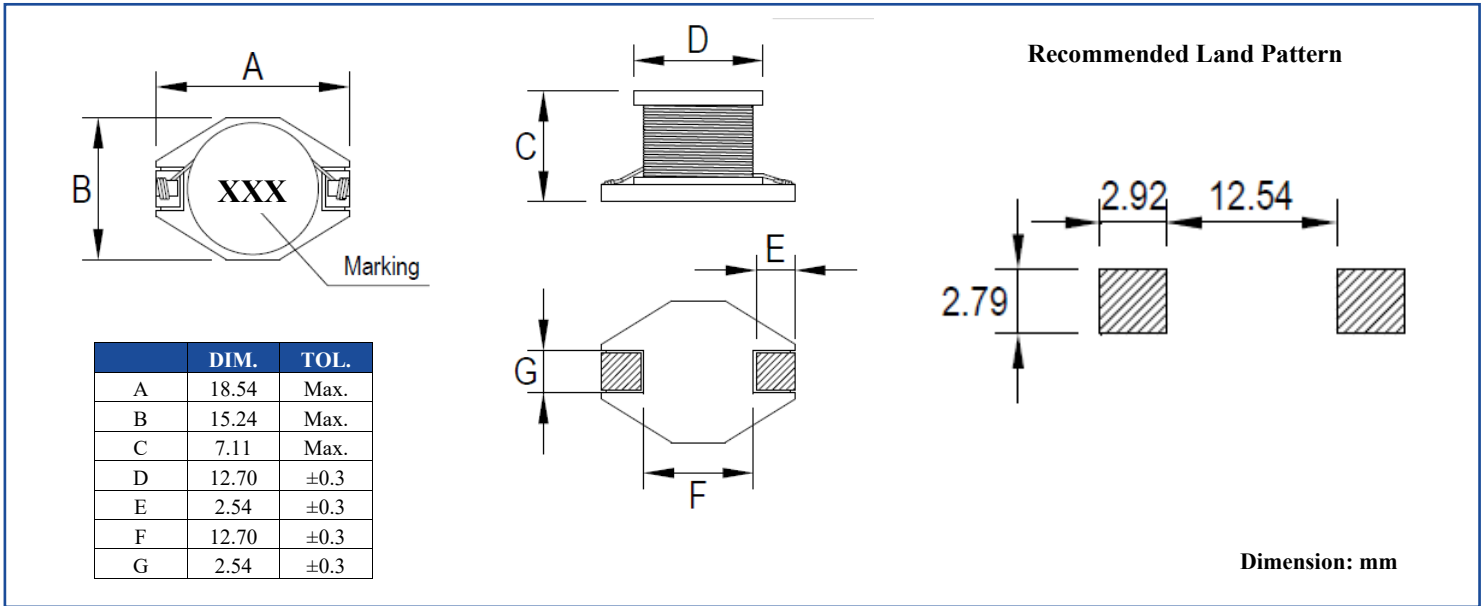


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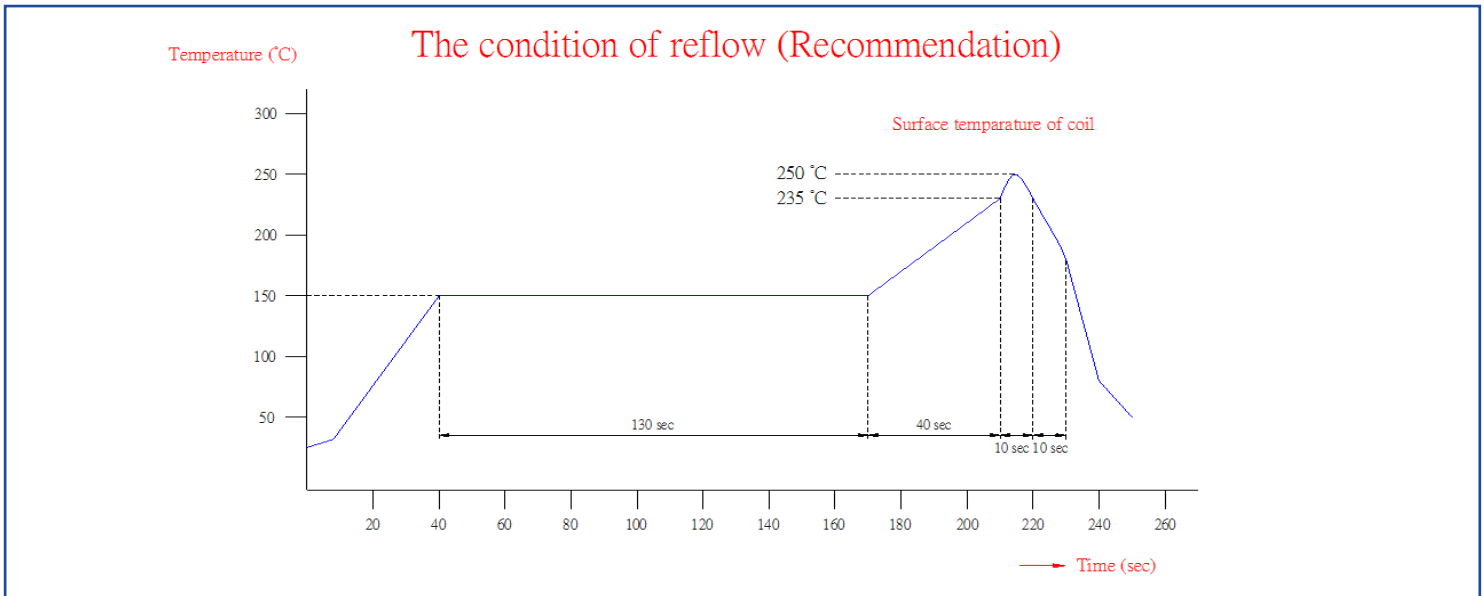
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## OUTLINE DIMENSION:



## REFLOW PROFILE:



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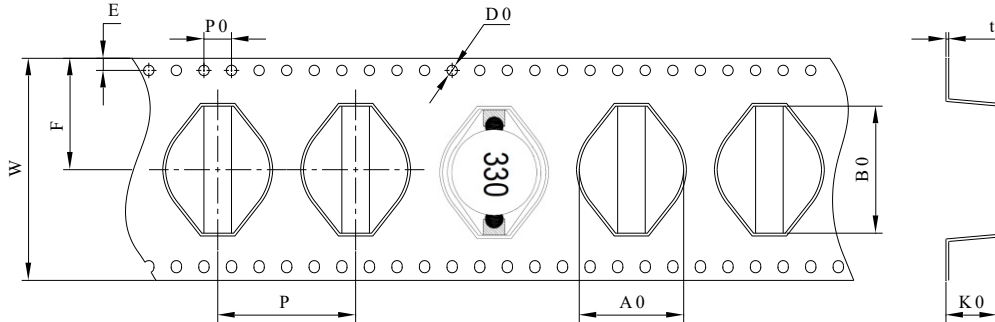
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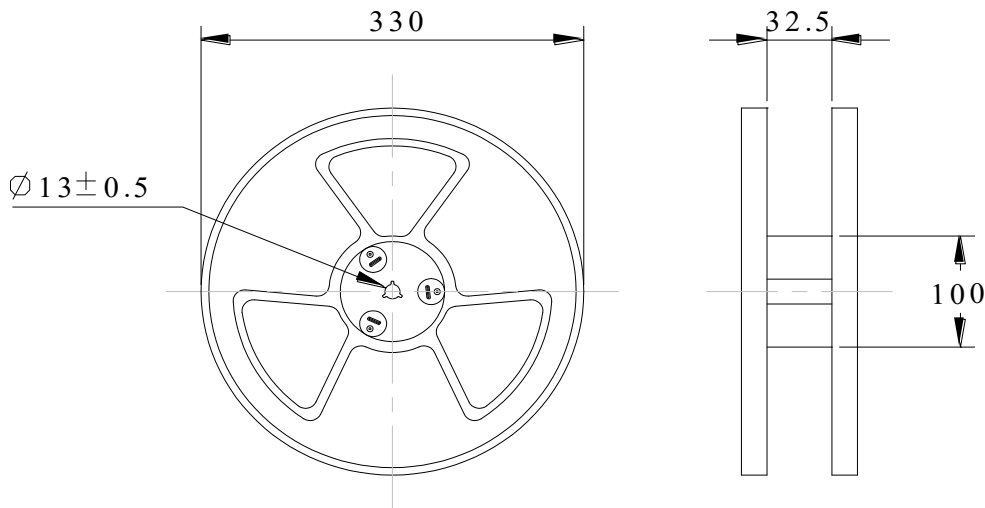
RoHS Compliant

## 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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