

SPECIFICATION FOR APPROVAL

承 認 書

CUSTOMER

客戶名稱：

NUMBER

编号: Y-24051102

DESCRIPTION

品 名：SMD POWER INDUCTORS

QUANTITY

數量：20PCS

PART NO.

型 號：CR6045-2R3N

DATE

日期：2024.05.11

CUSTOMER PART NO.

客戶料號：

NOTE

注解：

APPROVAL SIGNATURE

客戶承認簽章

APPROVED BY

核 准

李庆辉

DRAWN BY

制 作

劳水花

深圳市柯爱亚电子有限公司

Shenzhen Ceaiya Electronics Co., Ltd.

深圳地址：深圳市龙华区观澜街道新澜社区观光路 1301-74 号银星智界 4 号楼（综合楼）716

东莞地址：广东省东莞清溪镇青滨东路 105 号力合紫荆智能制造中心 10 栋一单元

[Http://www.szceaiya.com](http://www.szceaiya.com)

Tel: 0769-89135516

Fax: 0769-89135519



SPECIFICATIONS

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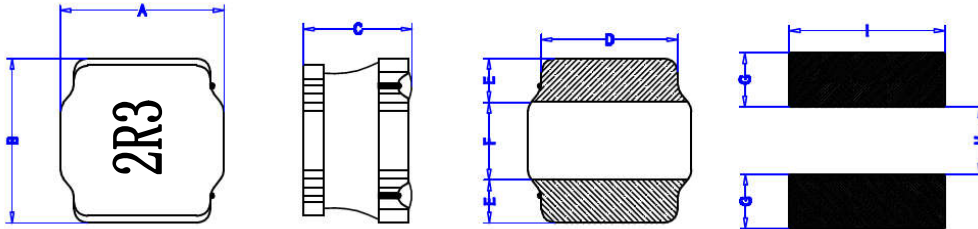
CR6045-2R3N

1. Scope

This specification apply for CR6045 of power inductors

2. Appearance

2-1.Dimensions(mm)



* Dimension without tolerance is approx.

A	6.0 ± 0.3 mm
B	6.0 ± 0.3 mm
C	4.5 mm(Max)
D	4.9±0.3mm
E	1.65±0.3mm
F	2.7±0.3mm
G	1.7mm
H	2.8mm
I	5.7mm

3. Coils Specification

3-1. Connection (Bottom View)



“S” is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	7.5 Ts
Wire	0.35mm G1 P180

* Winding Turns are approx.

LEAD-FREE

RoHS

Compliance

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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	2.3μH ± 30%	100KHz/1.0V	CH1062
D.C.R	22mΩ± 30%	25℃	HIOKI 3540
Isat ※1	6.4A	100KHz/1.0V	Microtest 6377&6220
Irise ※2	3.6A	25℃	Microtest 6377&6220

※ 1.This indicates the value of current when the inductance is 30% lower than its initial value at D.C superposition

※ 2. D.C current when temperature rise ΔT=40℃

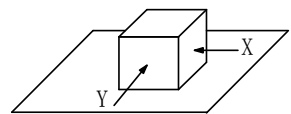
4. General Characteristics

4-1. Storage Temperature range : -40℃ ~ +105℃

4-2.Operating temperature range: -40℃ ~ +125℃ (Including coil's self temperature rise)

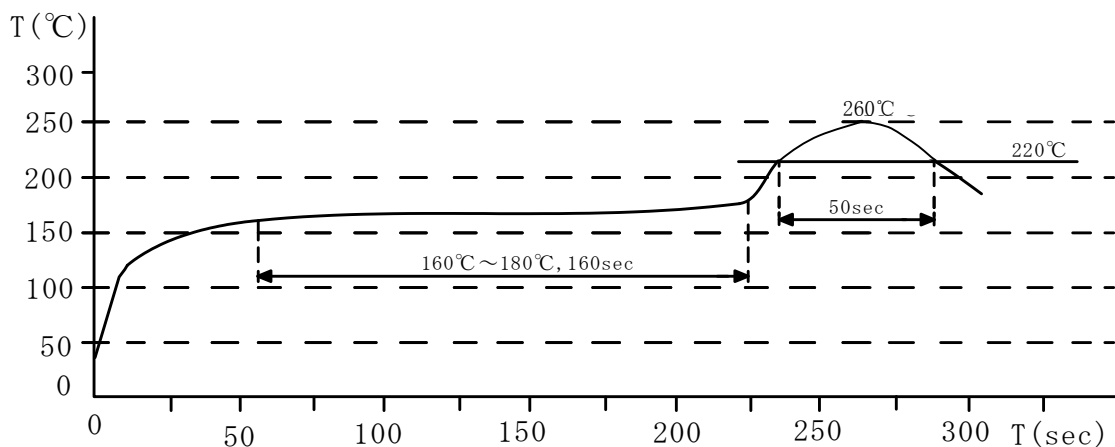
4-3.External appearance : No external defects can be found in the visual inspection.

4-4.Electrode strength : No electrode detachment should be found when the device is pushed in two directions of X and Y with the force of 10.0N for 10±2 seconds after soldering between copper plate and the electrodes.
(Refer to figure at right)



4-5.Vibration test : Inductance deviation is within ±10% after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is 10~55~10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6.Recommended reflow condition :



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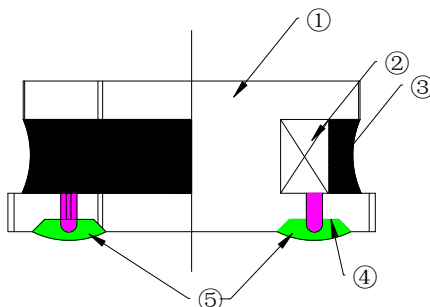
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $60 \pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

5. Construction and materials



No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	CY/TW
②	Wire	Polyurethane enameled copper wire	YLSL
③	Adhesive	Epoxy Resin Magnetic Powder	
④	Plating Electrodes	Plating: Ag 3-7 μm Ni 1-3 μm Sn 3-7 μm	
⑤	Outer Electrodes	Top surface solder coating Sn99%、Ag0.3%、Cu0.7%	YX

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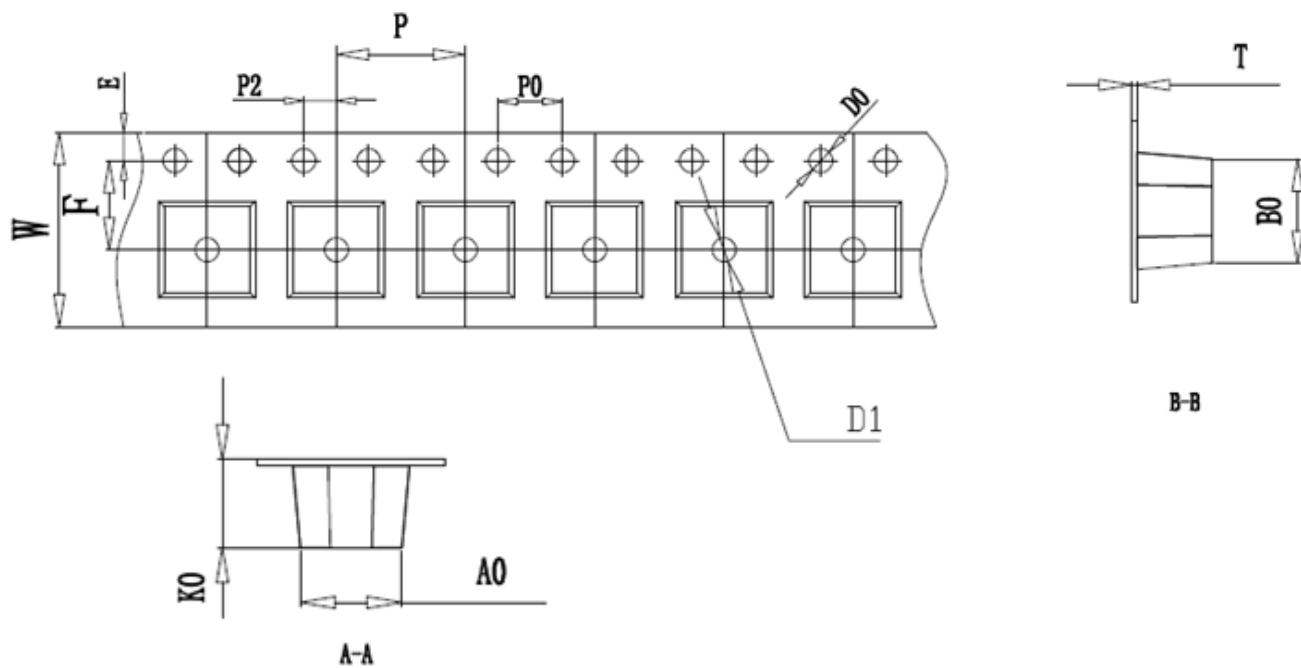
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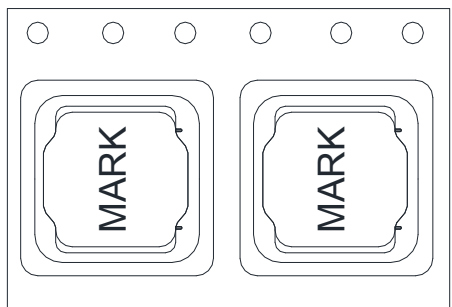
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6. TAPE DIMENSIONS:



ITEM	W	A0	B0	K0	P1	F	E	D0/D1	P0	P2	T
DIM	12.00	6.3	6.3	4.7	8.00	5.50	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05



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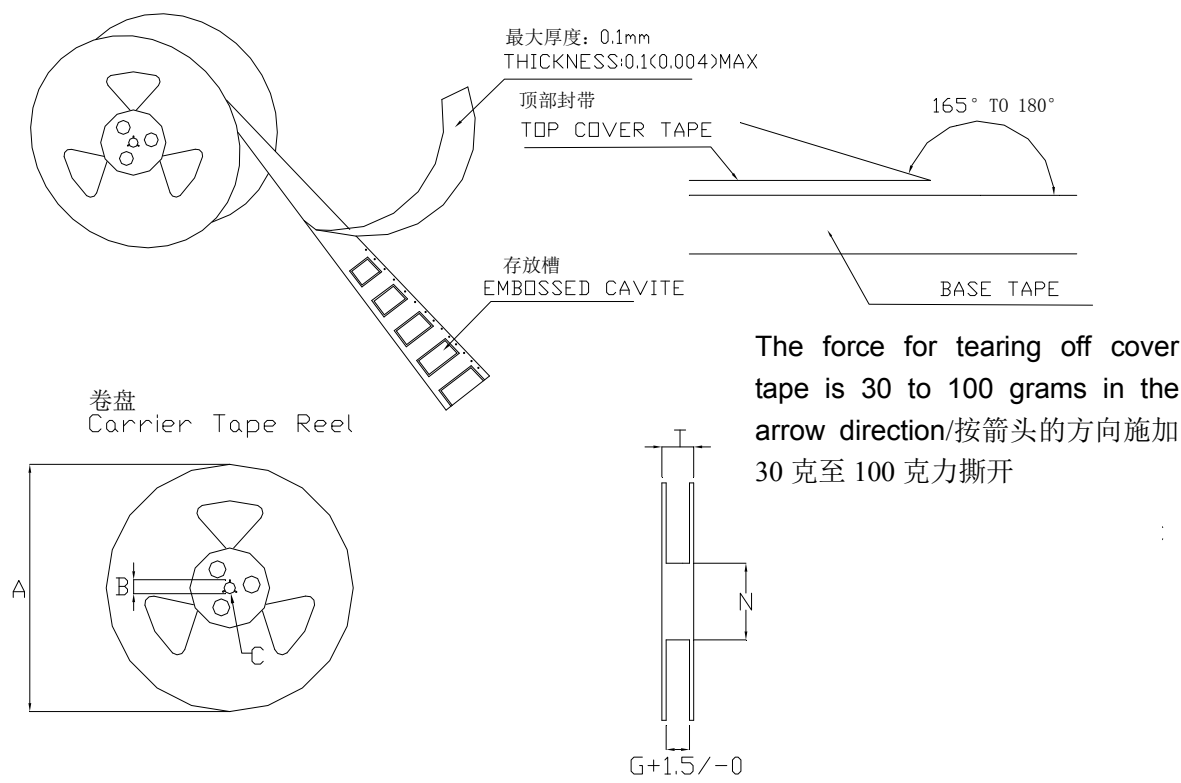
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7. TAPE REEL DIMENSIONS:



单位：毫米

Type	A	B	C	G	N	T
12mm	330	21±0.8	13±0.4	12.4	100	16.4

PACKAGING QUANTITY :

1.5KPCS/Reel 4.5KPCS/Inner Box 13.5KPCS/Outer Box

编带方式：热封编带

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