

SPECIFICATION FOR APPROVAL

承 認 書

CUSTOMER

客戶名稱：

NUMBER

編號： Y-17050801

DESCRIPTION

品 名：SMD POWER INDUCTORS

QUANTITY

數量：30PCS

PART NO.

型 號：CR4018A - 7R5M

DATE

日期： 2024-07-23

CUSTOMER PART NO.

客戶料號：

NOTE

注解：

APPROVAL SIGNATURE

客戶承認簽章

Approved By 核 准	Checked By 审 查	Drawn By 制 作
李庆辉	苏高峰	劳水花

深圳市柯爱亚电子有限公司

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

Tel: 0769-89333213



SPECIFICATIONS

TYPE:

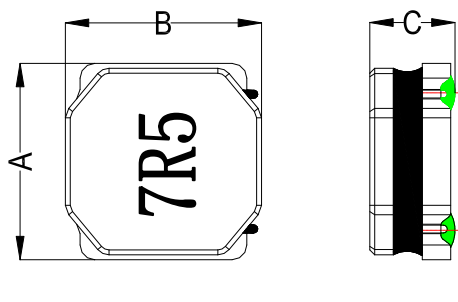
CR4018A - 7R5M

1. Scope

This specification apply for CR4018A of power inductors

2. Appearance

2-1. Dimensions(mm)

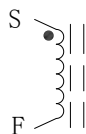


A	4.0 ±0.2mm
B	4.0 ±0.2mm
C	1.8±0.2mm
D	3.3±0.3mm
E	1.0±0.2mm
F	2.0±0.3mm

* Dimension without tolerance is approx.

3. Coils Specification

3-1. Connection (Bottom View)



“S” is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	14.5Ts
Wire	0.14mm G1 P180

* Winding Turns are approx.

LEAD-FREE

RoHS

Compliance

Note :

线包需涂磁粉胶

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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	7.5 μ H \pm 20%	100KHz/0.25V	CH1062
D.C.R	146m Ω \pm 20%	25 $^{\circ}$ C	HIOKI 3540
Isat※1	1.4A (Δ L/L0 \leq 30%)	100KHz/0.25V	CH1062&Chroma1320
Irms※2	0.98A (Δ T=40 $^{\circ}$ C)	25 $^{\circ}$ C	CH1062&Chroma1320

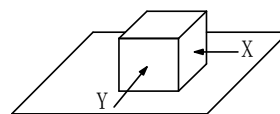
4. General Characteristics

4-1. Storage Temperature range : -40 $^{\circ}$ C \sim +105 $^{\circ}$ C

4-2. Operating temperature range: -40 $^{\circ}$ C \sim +125 $^{\circ}$ C (Including coil's self temperature rise)

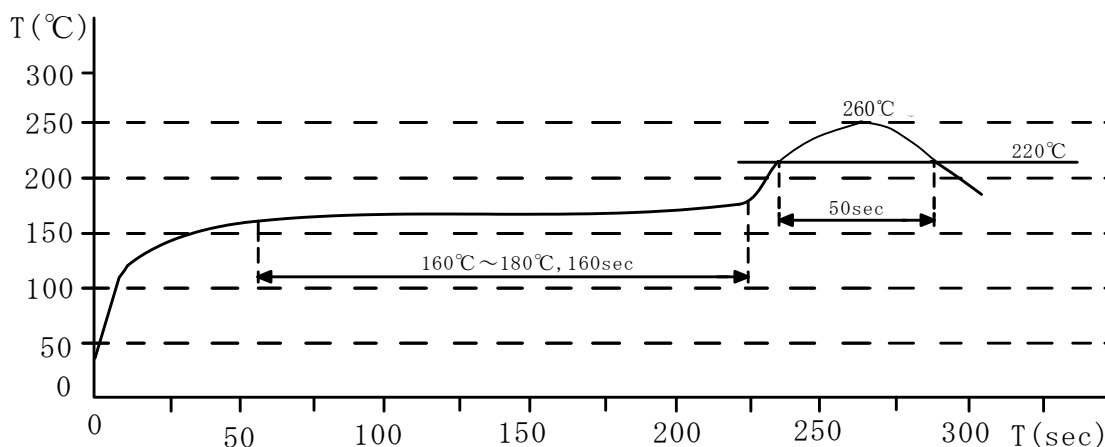
4-3. External appearance : No external defects can be found in the visual inspection.

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 \pm 2 seconds after soldering between copper plate and the electrodes.
(Refer to figure at right)



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

4-6. Recommended reflow condition :



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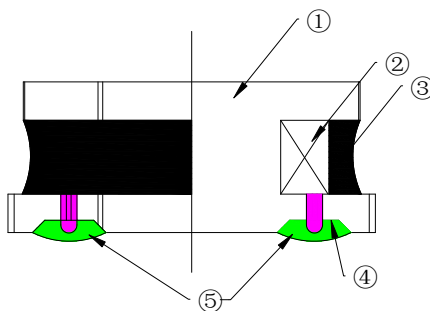
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $60 \pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the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

5. Construction and materials



No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	TZD/YN/MT
②	Wire	Polyurethane enameled copper wire	YLSL
③	Adhesive	Epoxy Resin Magnetic Powder	CH/DZ
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%	

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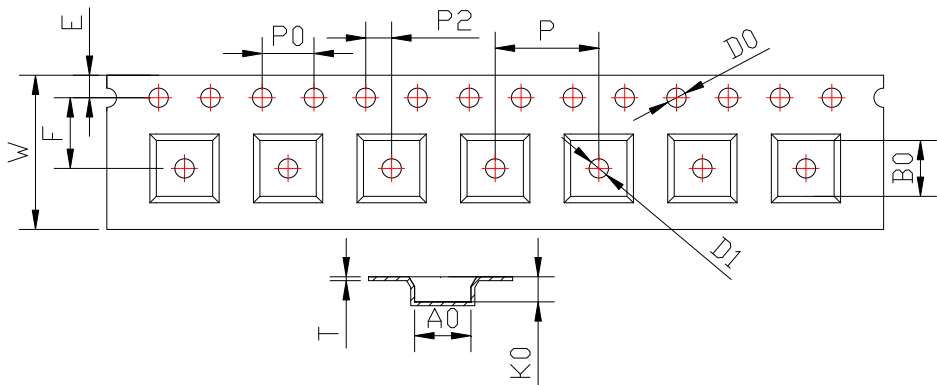
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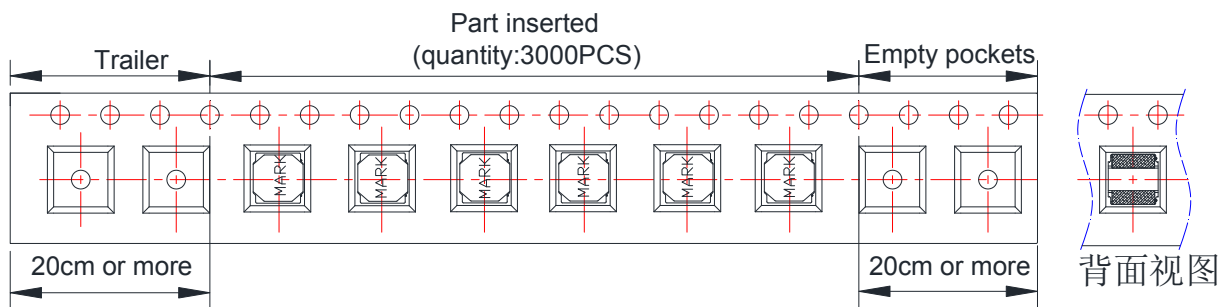
6.Packaging and Marking:

6-1.Carrier Tape Dimensions:

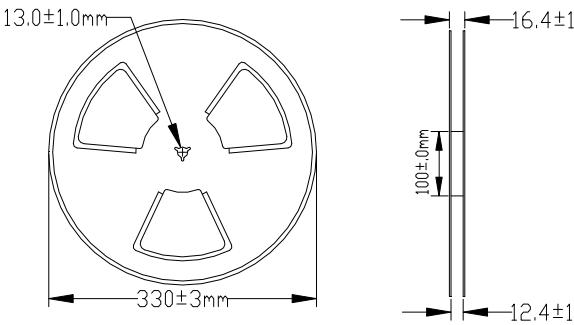


ITEM	W	A0	B0	K0	P	F	E	D0	D1	P0	P2	T
DIM	12.00	4.35	4.35	1.95	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.30
TOLE	+0.30 -0.10	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	+0.1	±0.1	±0.1	±0.05

6-2.Taping Dimensions:



6-3.Reel Dimensions:



6-4.Quantity:

3000PCS/盘(13 寸盘)

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