SPECIFICATION FOR APPROVAL

承

認

書

CUSTOMER NUMBER

客户名稱: 编号: L023-1

DESCRIPTION QUANTITY

型 號: **CR5040 - 201M** 數量: 20PCS

PART NO. DATE

品 名: SMD POWER INDUCTORS 日期: 2023-09-14

CUSTOMER PART NO. NOTE

客戶料號: 注解:

APPROVAL SIGNATURE 客戶承認簽章	

Approved By	Checked By	Drawn By
核准	审查	制作
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CUSTOMER:	SPECIFICATIONS	ТҮРЕ
	(Revisions)	CR5040-201M

History of change

	instory of change			1
Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2019-09-03	New release	/	

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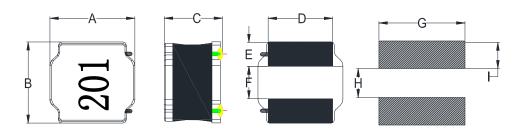
CR5040 - 201M

1. Scope

This specification apply for CR5040 of power inductors

2. Appearance

2-1.Dimensions(mm)



5.0 ± 0.3 mm 5.0 ± 0.3 mm
5.0± 0.3mm
4.0mm Max
$4.0 \pm 0.3 mm$
1.25± 0.3mm
2.5± 0.3mm
4.2mm
2.3mm
1.4mm

3. Coils Specification

3-1. Connection (Bottom View)



"S" is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	83.5 Ts
Wire	ф0.13mm G1 P180

* Winding Turns are approx.





Note:		SPEC.NO.:
1.	线包涂胶。	L023-1
2.	印黑色字体。	2/6



^{*} Dimension without tolerance is approx.

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3-3. Electronical characteristics

Item	Specifications	Measuring	Measuring
Item	Specifications	Conditions	Instrument
Inductance	200μH ± 20% Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	$1.2\Omega\pm30\%$	25℃	CH502BC/HIOKI3540
Isat ※1	0.62A Max	100KHz/0.25V	Microtest 6377&6220
Irise ※2	0.46A Max	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

4. General Characteristics

4-1. Storage Temperature range : -40° C $\sim +125^{\circ}$ C

4-2. Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (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±2 seconds after soldering between copper plate and the electrodes.

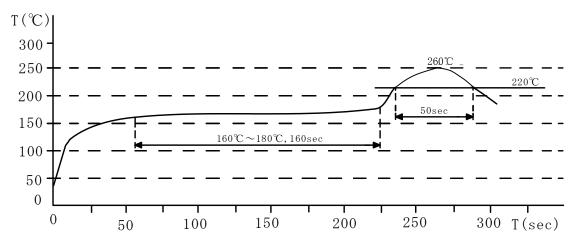
(Refer to figure at right)

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 $10\sim55\sim10$ Hz and the amplitude of

1 minute cycle is 1.5mm PP.

4-6.Recommended reflow condition



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 $[\]times$ 2. D.C current when temperature rise $\Delta T=40^{\circ}$ C (Ta=20°C)

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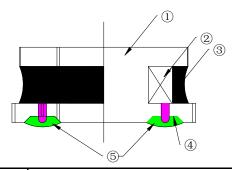
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4-7. Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the

condition of relative humidity of 90 \sim 95% and temperature of 60±2°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	TW/CY
2	Wire	Polyurethane enameled copper wire	3210200
3	Adhesive	Epoxy Resin Magnetic Powder	7001007
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

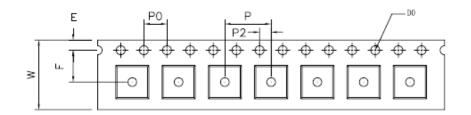
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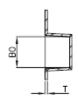


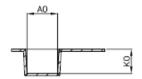
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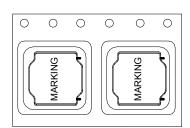
6.Package Specification







ITEM	W	A0	В0	K0	P	F	E	D0	D1	P0	P2	Т
DIM	12.00	5.3	5.3	4.3	8.00	5.50	1.75	1.50	1.50	4.00	2.00	0.4
TOLE	±0.3	±0.1	±0.1	±0.15	±0.1	±0.15	±0.1	+0.1	+0.1	±0.1	±0.1	±0.05

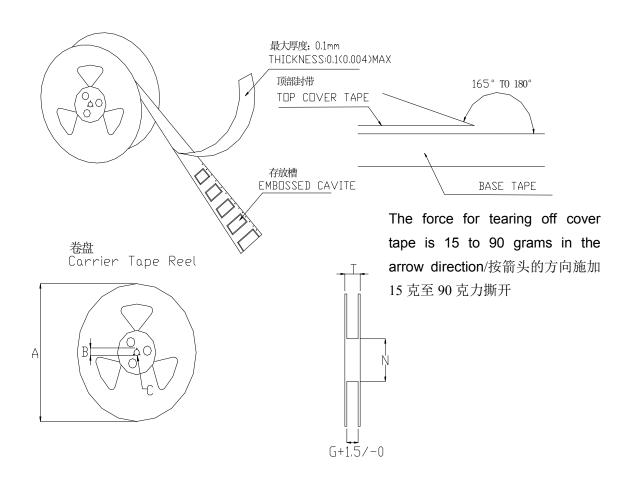


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7. CARRIER REEL DIMENSIONS:



Unit: mm

Туре	А	В	С	G	N	Т
12mm	330	21±0.8	13±0.4	12.4	100	16.4

8. PACKAGE SPECIFICATION:

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

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