

SPECIFICATION FOR APPROVAL

承 認 書

CUSTOMER

客戶名稱：

NUMBER

編號： L001-1

PART NO.

品 名： SMD POWER INDUCTORS

QUANTITY

數量： 20PCS

DESCRIPTION

型 號： CR6028 - 151M

DATE

日期： 2026-01-15

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
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CUSTOMER:	SPECIFICATIONS (Revisions)	TYPE CR6028-151M
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History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2024/11/06	New release	/	

Note :	SPEC.NO.: L001-1	1/6
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SPECIFICATIONS

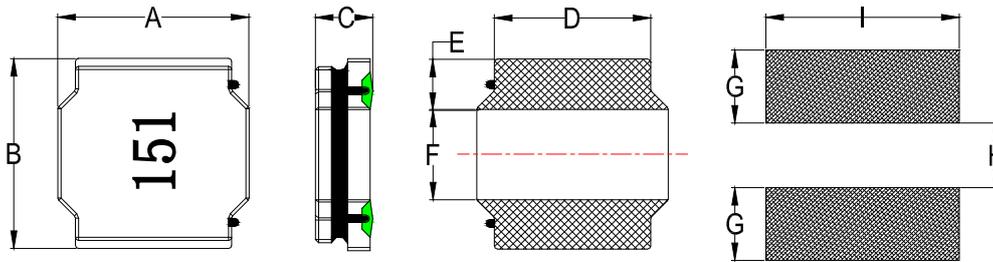
TYPE:
CR6028-151M

1. Scope

This specification apply for CR6028of power inductors

2. Appearance

2-1. Dimensions(mm)



A	6.0 ± 0.3mm
B	6.0 ± 0.3mm
C	2.8mm MAX
D	4.9 ± 0.3mm
E	1.55 ± 0.3mm
F	2.9 ± 0.3mm
G	1.7 mm
H	2.8 mm
I	5.7 mm

* 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	51.5 Ts
Wire	Φ 0.12mm G1 P180

* Winding Turns are approx.



Note :

线包涂胶。

SPEC.NO.:

L001-1

2/6

SPECIFICATIONS

TYPE:

CR6028-151M

3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	150 μ H \pm 20% Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	1.0 Ω \pm 30%	25 $^{\circ}$ C	CH502BC/HIOKI3540
Isat ※1	0.58A(Δ L/L0 \leq 30%)	100KHz/0.25V	Microtest 6377&6220
Irise※	0.51A(Δ T=40 $^{\circ}$ C)	25 $^{\circ}$ C	Microtest 6377&6220

※ This indicates the value of current when the inductance is 30% lower than its initial value at D.C superposition or D.C current when temperature rise Δ T=40 $^{\circ}$ C

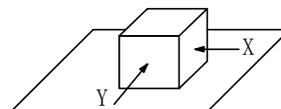
4. General Characteristics

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

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

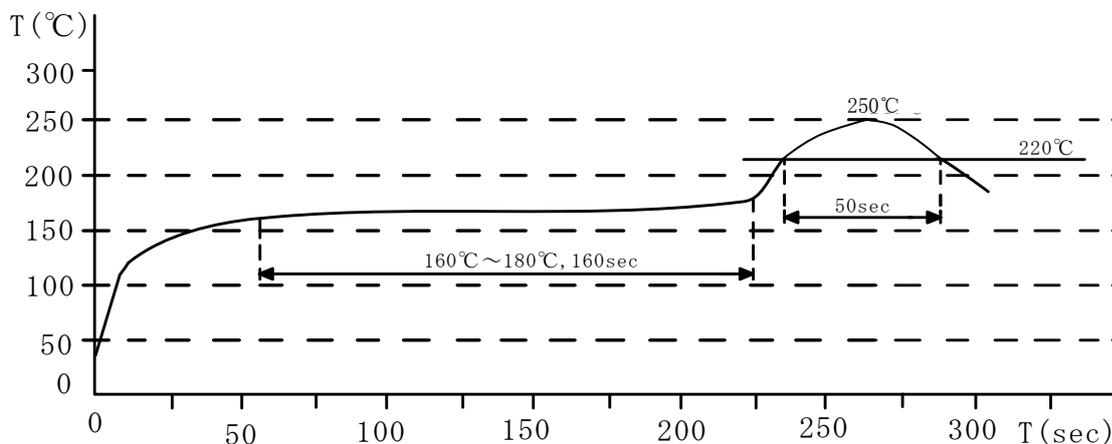
4-3. External appearance : No external defects can be found in the visual inspection.

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 10~55~10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6. Recommended reflow condition :



Note :

Spec. No.

L001-1

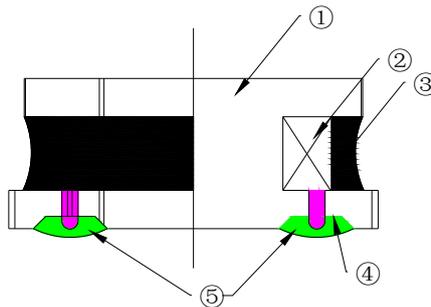
3/6

SPECIFICATIONS

TYPE:
CR6028-151M

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



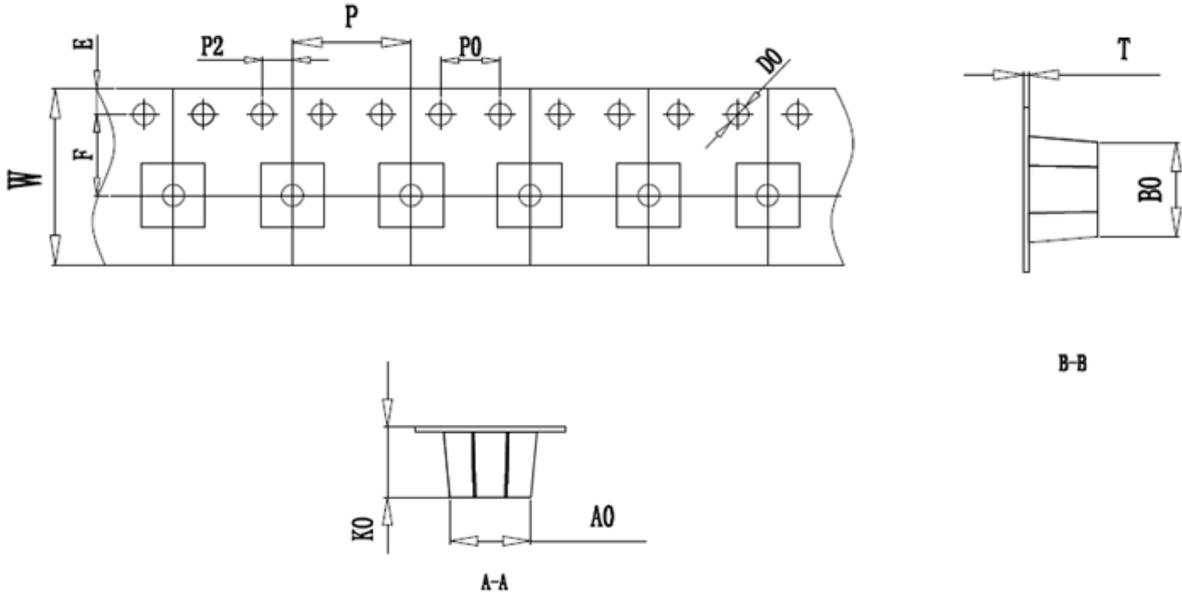
No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	CY/MO
②	Wire	Polyurethane enameled copper wire	3210200
③	Adhesive	Epoxy Resin	7001007
④	Plating Electrodes	Plating: Ag 3-7 μm Ni 1-3 μm Sn 3-7 μm	
⑤	Outer Electrodes	Top surface solder coating Sn99% 、 Ag0.3%、 Cu0.7%	

Note :	Spec. No. L001-1
	4/6

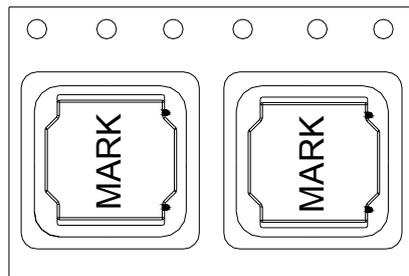
SPECIFICATIONS

TYPE:
CR6028-151M

6. TAPE DIMENSIONS:



ITEM	W	A0	B0	K0	P	F	E	D0	D1	P0	P2
DIM	12.00	6.4	6.3	3.15	8.00	5.50	1.75	1.50	1.50	4.00	2.00
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.15	±0.1	+0.1	+0.1	±0.1	±0.1

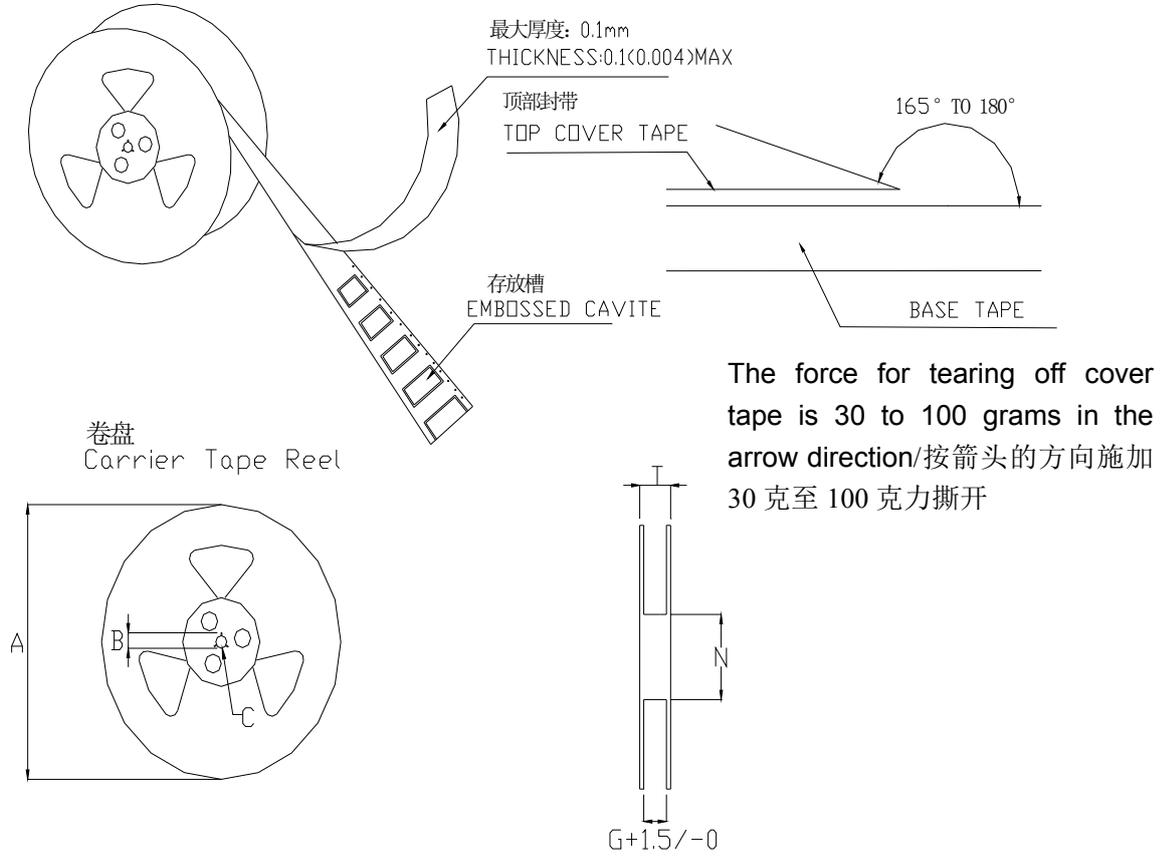


Note :	Spec. No. L001-1 5/6
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SPECIFICATIONS

TYPE:
CR6028-151M

7. CARRIER REEL DIMENSIONS:



Unit: mm

Type	A	B	C	G	N	T
12mm	330	21±0.8	13±0.4	12.0	100	16.4

8. PACKAGE SPECIFICATION :

2000PCS/Reel 6000PCS/Inner Box 18000PCS/Outer Box

Note :	Spec. No. L001-1
	6/6