

SPECIFICATION FOR APPROVAL

承認書

CUSTOMER

客户名称： _____ 编号： Y-22120201

PART NO.

品名：SMD POWER INDUCTORS 數量： 30 PCS

DESCRIPTION

型号：CD43 - 131K 日期： 2022-12-02

CUSTOMER PART NO.

客户料号： _____ 注解： _____

APPROVAL SIGNATURE

客户承認簽章

Approved By 核 准	Checked By 审 查	Drawn By 制 作
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CUSTOMER:	SPECIFICATIONS (R e v i s i o n s)	TYPE CD43-131K
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History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2022-12-02	New release	/	

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SPECIFICATIONS

TYPE:

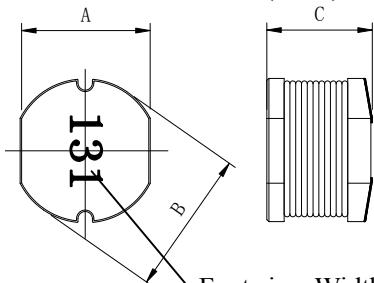
CD43-131K

1. Scope

This specification apply for CD43 of power inductors

2. Appearance

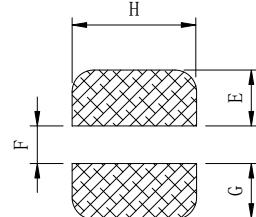
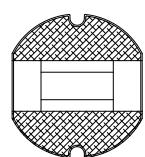
2-1. Dimensions(mm)



Font size: Width 1.74*High0.9 Song ti

* Dimension without tolerance is approx.

2-2. Recommended Land



A	4.0 ± 0.3 mm
B	4.5 ± 0.3 mm
C	3.5mm(Max)
D	1.5 mm
E	1.8 mm
F	1.2 mm
G	1.8 mm
H	4.5 mm

3. Coils Specification

3-1. Connection (Bottom View)



“S” is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	75.5 Ts
Wire	φ0.12mm G1 P180

* Winding Turns are approx.



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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	130 μ H \pm 10% Within	1KHz/0.25V	CH1062
D.C.R	1.3 Ω Max	25°C	HIOKI 3540
I.D.C*	460mA Max	1KHz/0.25V	CH1062&Chroma1320

* This indicates the value of current when the inductance is 20% lower than its initial value at D.C superposition or D.C current when temperature rise $\Delta T=40^\circ\text{C}$ whichever is lower. (Ta=20°C)

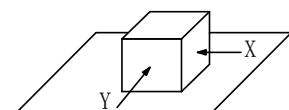
4. General Characteristics

4-1. Storage Temperature range : -40°C ~ +125°C

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

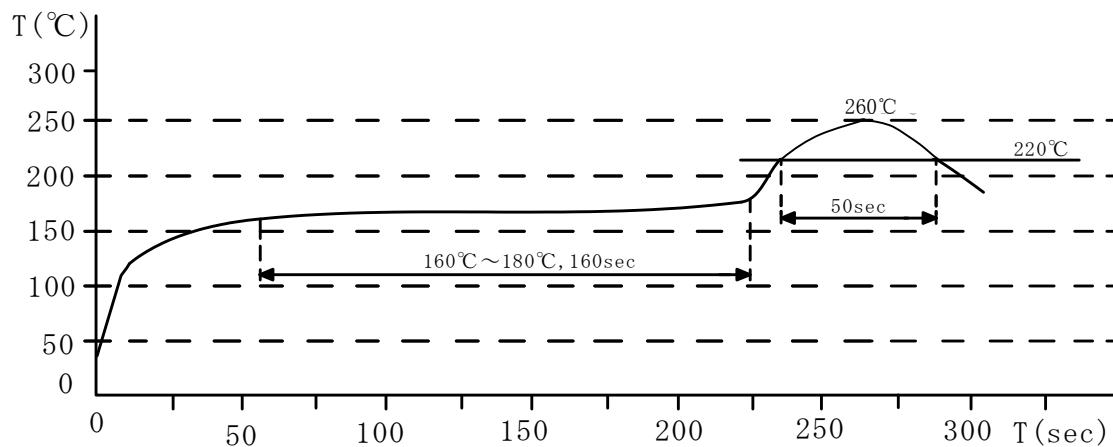
4-3. External appearance : No external defects can be found in the visual inspection.

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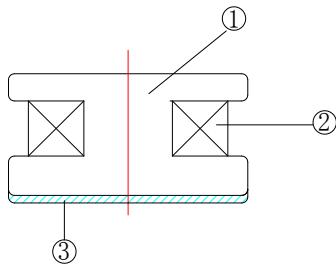
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of 90~95% and temperature of 60 $\pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the device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

5. Construction and materials



No.	Part name	Material	耐温等级	UL No.
①	Drum Core	Ni-Zn Ferrite Core DR4.5*3.2 B:1.7 F:1.5	/	/
②	Wire	Polyurethane enameled copper wire $\phi 0.12\text{mm}$ G1 P180	180°C(G1 P180)	E258243
③	Electrode	Cu + Sn plating	/	/
④	INK	MB247/1116K	/	/

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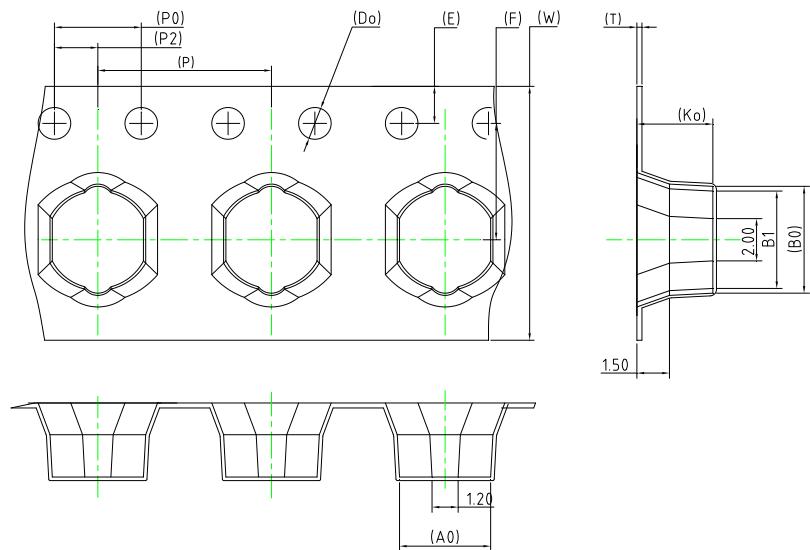
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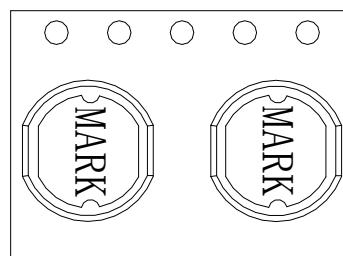
TYPE:

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6. TAPE DIMENSIONS:



W	12.00 ± 0.30	P	8.00 ± 0.10	A0	4.20 ± 0.10	B0	5.05 ± 0.10
P0	4.00 ± 0.10	P2	2.00 ± 0.10	E	1.75 ± 0.10	B1	4.60 ± 0.10
F	5.50 ± 0.10	D0	$\phi 1.50^{+0.10}_{-0}$	K0	3.60 ± 0.10	T	0.40 ± 0.05



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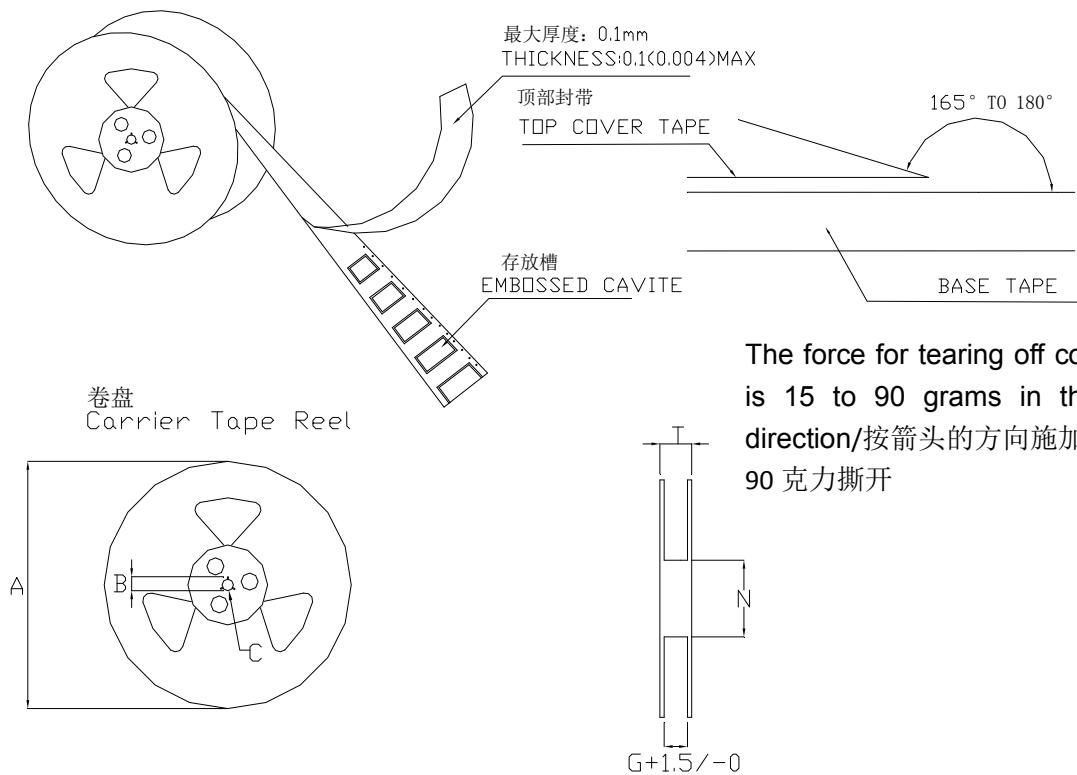
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7. TAPE REEL DIMENSIONS:



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 :

2000 PCS /REEL

Note :

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