

SPECIFICATION FOR APPROVAL

承 認 書

CUSTOMER

客戶名稱：

NUMBER

编号: L043-A

PART NO.

品 名：SMD POWER INDUCTORS

QUANTITY

數量：20PCS

DESCRIPTION

型 號： CD43 - 100K

DATE

日期：2025.08.15

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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深圳市柯爱亚电子有限公司

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SPECIFICATIONS

TYPE:

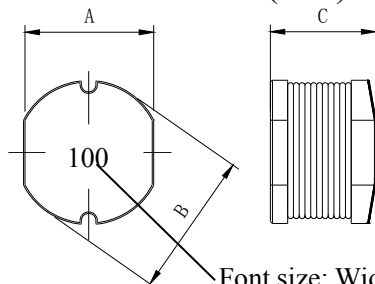
CD43-100K

1. Scope

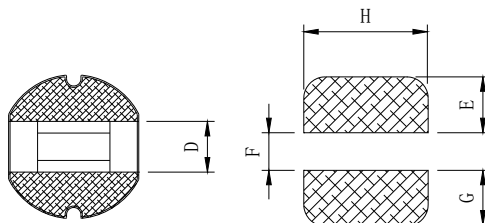
This specification apply for CD43 of power inductors

2. Appearance

2-1.Dimensions(mm)



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

* 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	21.5 Ts
Wire	Φ 0.21mm G1 P180

* Winding Turns are approx.

LEAD-FREE



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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	10 μ H \pm 10% Within	1KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	150m Ω Max	25 $^{\circ}$ C	HIOKI 3540
I.D.C※	1A Max	1KHz/0.25V	Microtest 6377&6220

※ This indicates the value of current when the inductance is 10% lower than its initial value at D.C superposition or D.C current when temperature rise $\Delta T=40^{\circ}\text{C}$

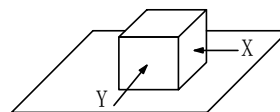
4. General Characteristics

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

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

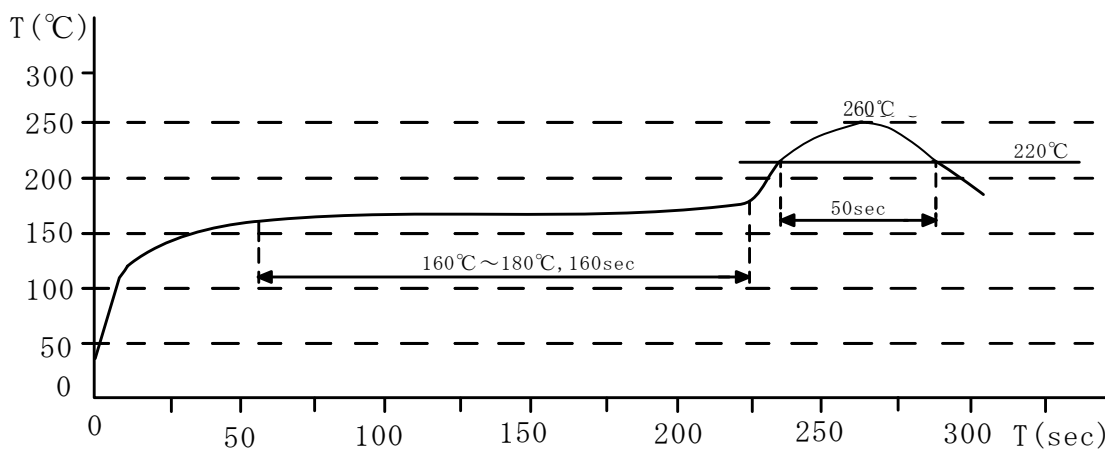
4-3. External appearance : No external defects can be found in the visual inspection.

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 $10 \sim 55 \sim 10\text{Hz}$ and the amplitude of 1 minute cycle is 1.5mm PP.

4-6. Recommended reflow condition :



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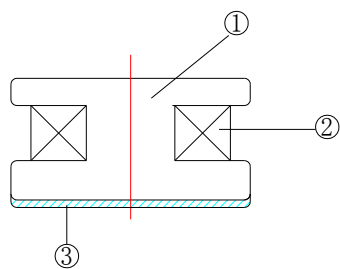
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90\sim 95\%$ and temperature of $60\pm 2^{\circ}\text{C}$, and 1 hour storage under room ambient conditions after the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

5. Construction and materials



No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	MO/BL/MT
②	Wire	Polyurethane enameled copper wire	3210210
③	Electrode	Cu + Sn plating	

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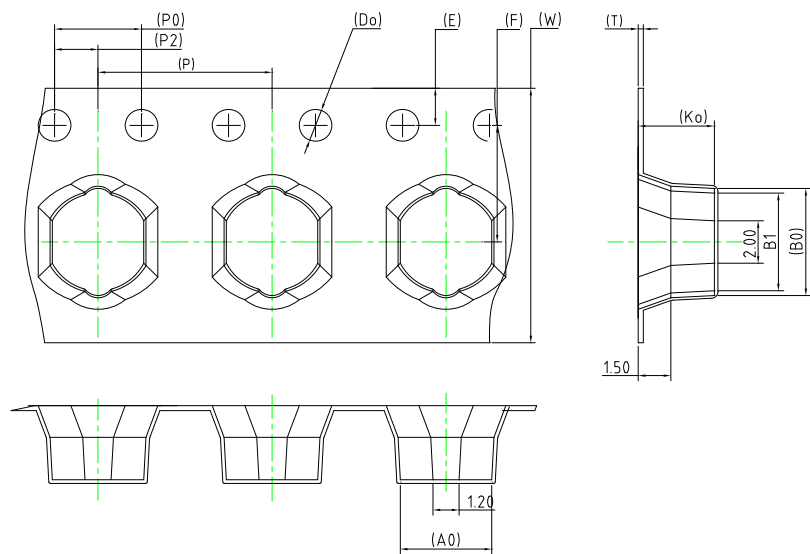
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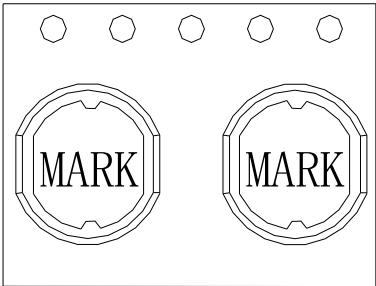
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6. TAPE DIMENSIONS:



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	DO	ø1.50 ^{+0.10} ₋₀	K0	3.60±0.10	T	0.40±0.05

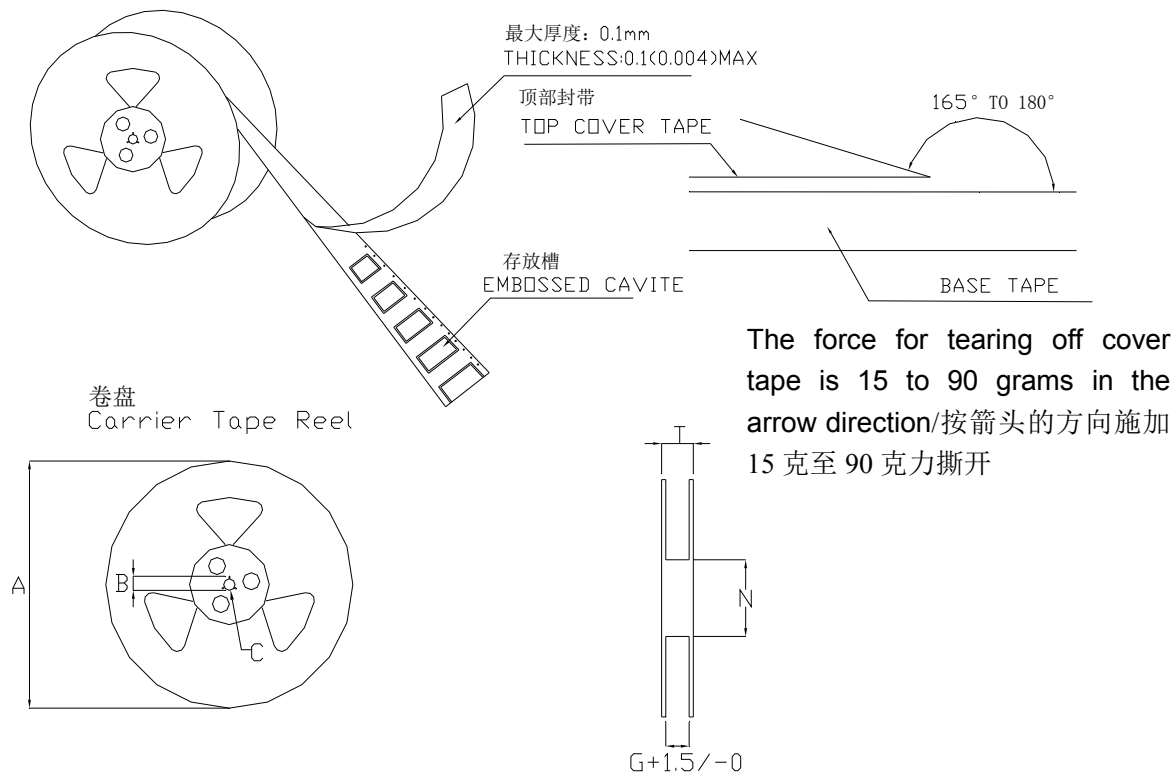


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7. TAPE REEL DIMENSIONS:



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

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