

SPECIFICATION FOR APPROVAL

承 認 書

CUSTOMER

客戶名稱：

NUMBER

编号: L012-470

DESCRIPTION

品 名：SMD POWER INDUCTORS

QUANTITY

數量： 10 PCS

PART NO.

型 號：CDH105R - 471M

DATE

日期： 2024-04-24

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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SPECIFICATIONS

TYPE:

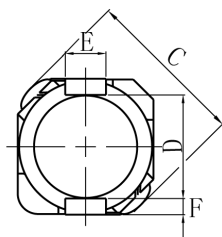
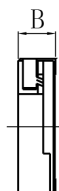
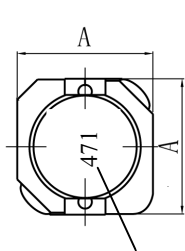
CDH105R-471M

1. Scope

This specification apply for CDH105R of power inductors

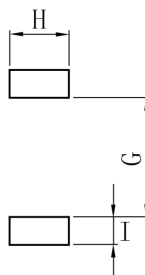
2. Appearance

2-1.Dimensions(mm)



Font size: Width 3.8*High2.2 Song ti

2-2.Recommended Land



A	10.5mm(Max)
B	5.1mm(Max)
C	13.5mm(Max)
D	7.7 mm
E	3.0 mm
F	1.2 mm
G	7.3 mm
H	3.2 mm
I	1.6 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	63.5 Ts
Wire	0.17mm G1 P180

* Winding Turns are approx.

LEAD-FREE



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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	470 μ H $\pm$ 20% Within	1KHz/0.25V	CH1062
D.C.R	1.3 Ω Max	25 $^{\circ}$ C	HIOKI 3540
I.D.C※	540m A	25 $^{\circ}$ C	CH1062&Chroma1320

※ This indicates the value of current when the inductance is 35% 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 .($T_a=20^{\circ}\text{C}$)

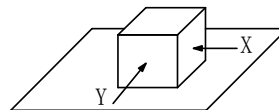
4. General Characteristics

4-1. Storage Temperature range : $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$

4-2. Operating temperature range: $-40^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (Including coil's self temperature rise)

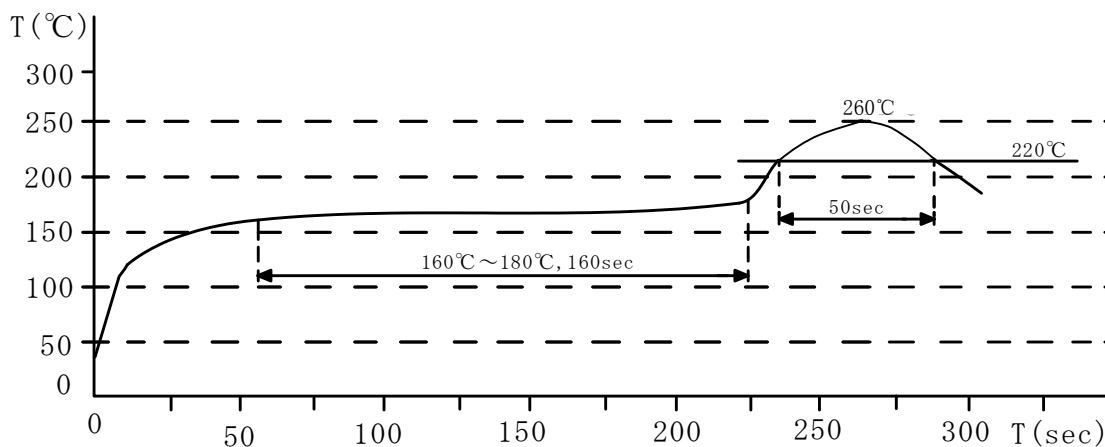
4-3. External appearance : No external defects can be found in the visual inspection.

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 5.0N 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 $\pm 3.0\%$ 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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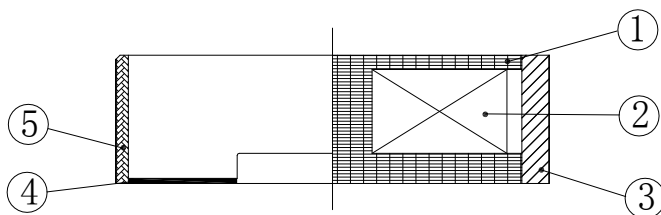
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $40 \pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

5. Construction and materials



No.	Part name	Material
①	Drum Core	Ni-Zn Ferrite Core
②	Wire	Polyurethane enameled copper wire
③	Ring Core	Ni-Zn Ferrite Core
④	Adhesive	Epoxy Resin
⑤	Electrode	Cu + Sn plating

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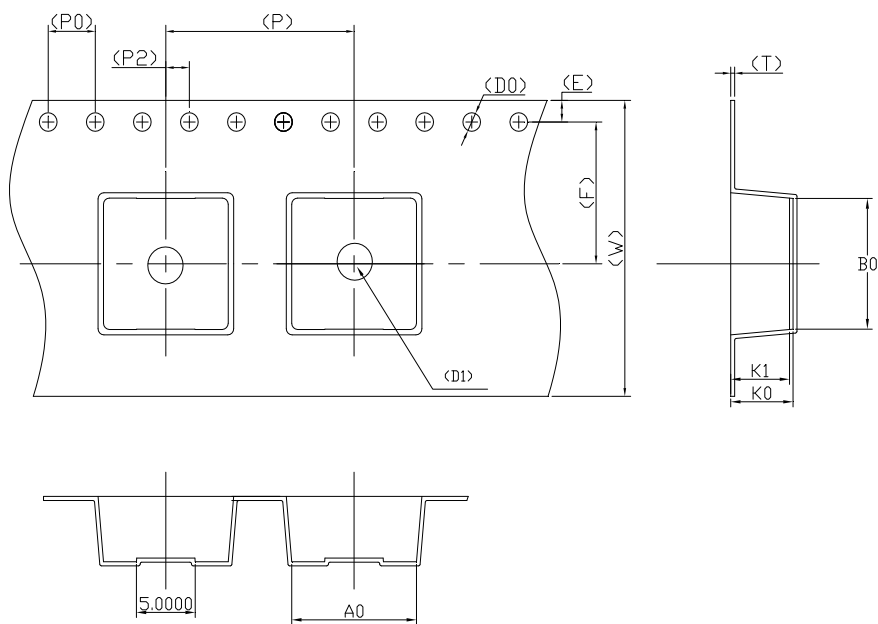
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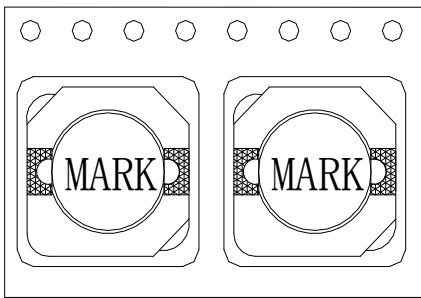
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6. TAPE DIMENSIONS:



W	24.00±0.30	P	16.00±0.10	A0	10.40±0.10	B0	10.70±0.10
P0	4.00±0.10	P2	2.00±0.10	E	1.75±0.10	F	11.50±0.10
D0	ø1.50 ^{+0.10} ₋₀	D1	ø1.50MIN	K0	5.20±0.10	T	0.40±0.05



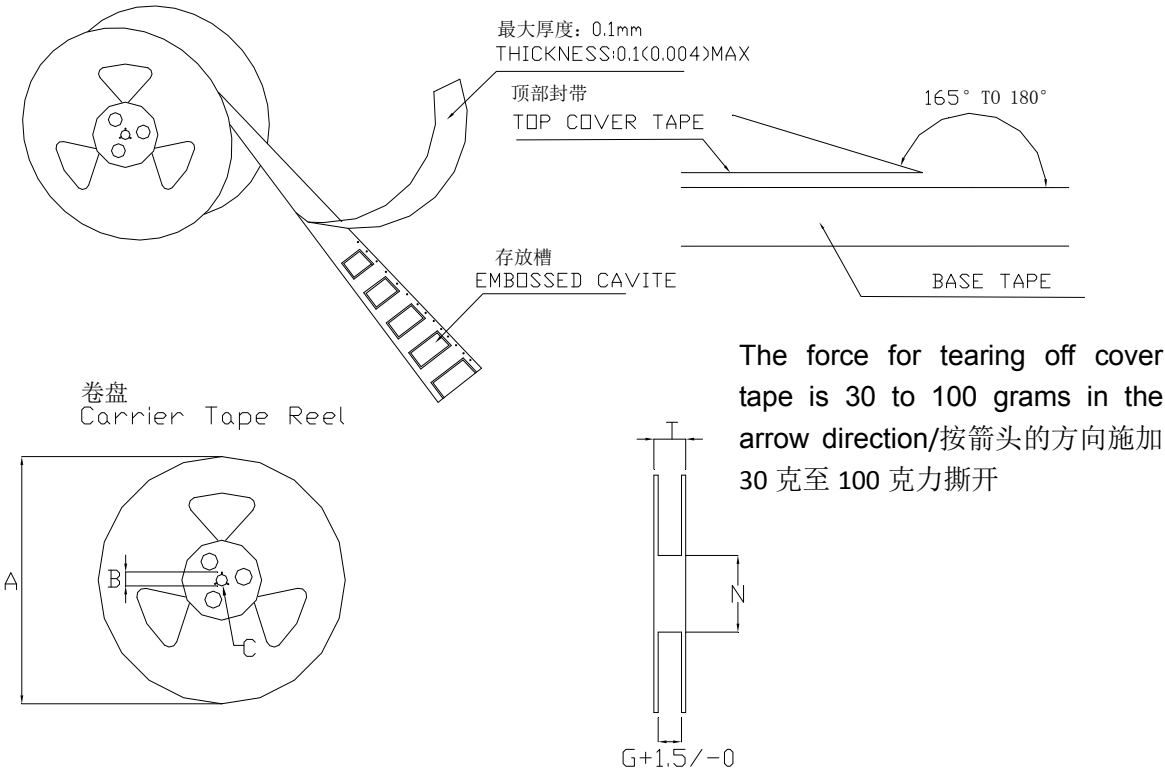
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7. TAPE REEL DIMENSIONS:



单位：毫米

Type	A	B	C	G	N	T
24mm	330	21±0.8	13±0.2	24.4	100	28.4

PACKAGING QUANTITY :
800 PCS /REEL

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