

# SPECIFICATION FOR APPROVAL

## 承 認 書

CUSTOMER

客户名稱：

NUMBER

编号: L071-111

PART NO.

品 名： SMD POWER INDUCTORS

QUANTITY

數量：30PCS

DESCRIPTION

型 號： CDH127 - 111M

DATE

日期：2024-04-19

CUSTOMER PART NO.

客户料號：

NOTE

注解：

APPROVAL SIGNATURE

客戶承認簽章

Approved By

核 准

李庆辉

Checked By

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## SPECIFICATIONS

TYPE:

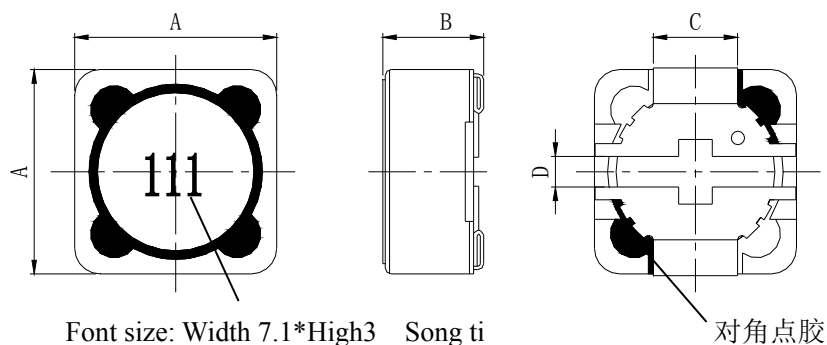
**CDH127-111M**

### 1. Scope

This specification apply for CDH127 of power inductors

### 2. Appearance

#### 2-1. Dimensions(mm)



A	12.3mm(Max)
B	8.0mm(Max)
C	5.0 mm
D	2.0 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	37.5 Ts
Wire	Φ 0.40mm G1 P180

\* Winding Turns are approx.

**LEAD-FREE**

**RoHS**

Compliance

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### 3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	110 $\mu$ H $\pm$ 20% Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	220m $\Omega$ Max	25 $^{\circ}$ C	HIOKI 3540
I.D.C※	3.0A Max	100KHz/0.25V	Microest 6377&6220

※ This indicates the value of current when the inductance is 35% lower than its initial value at D.C superposition

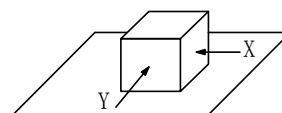
## 4. General Characteristics

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

4-2. Operating temperature range: -40 $^{\circ}$ C  $\sim$  +105 $^{\circ}$ C (Including coil's self temperature rise)

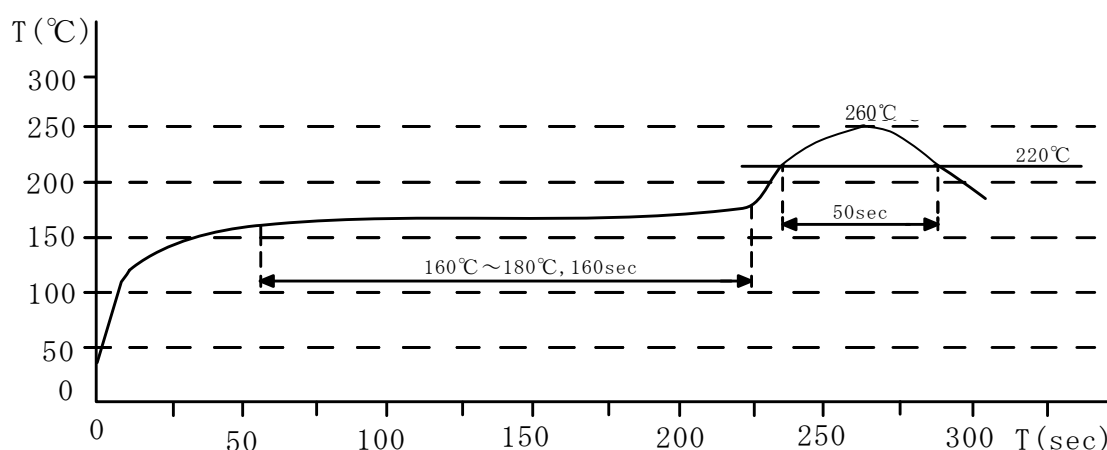
4-3. External appearance : No external defects can be found in the visual inspection.

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 5.0N 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  $\pm$ 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 $\sim$ 10Hz and the amplitude of 1 minute cycle is 1.5mm PP.

4-6. Recommended reflow condition :



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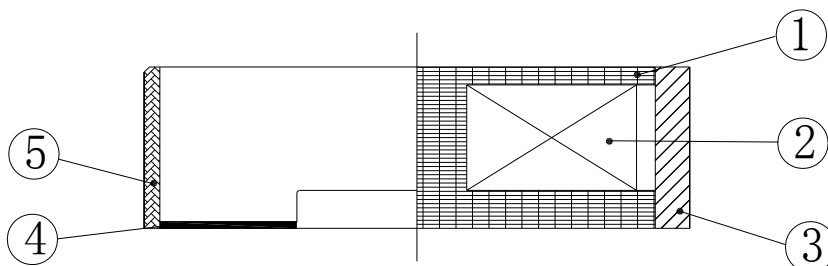
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4-7.Humidity test : Inductance deviation is within  $\pm 5.0\%$  after  $96 \pm 4$  hours test under the condition of relative humidity of  $90 \sim 95\%$  and temperature of  $40 \pm 2^\circ\text{C}$ , and 1 hour storage under room ambient conditions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

## 5. Construction and materials



No.	Part name	Material	Ceaiya P/N
①	Drum Core	Ni-Zn Ferrite Core	TY
②	Wire	Polyurethane enameled copper wire	YLSL
③	Ring Core	Ni-Zn Ferrite Core	TY
④	Adhesive	Epoxy Resin	CL
⑤	Electrode	Cu + Sn plating	LC

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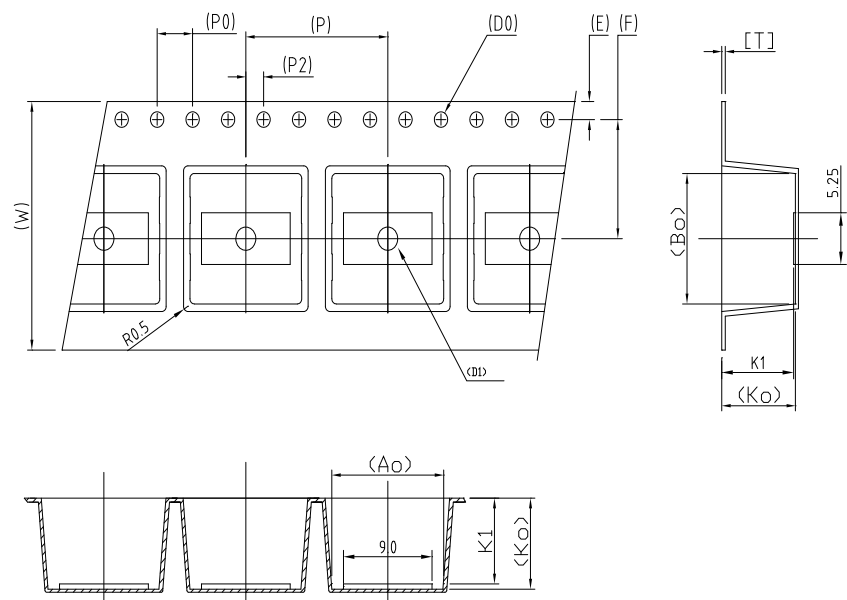
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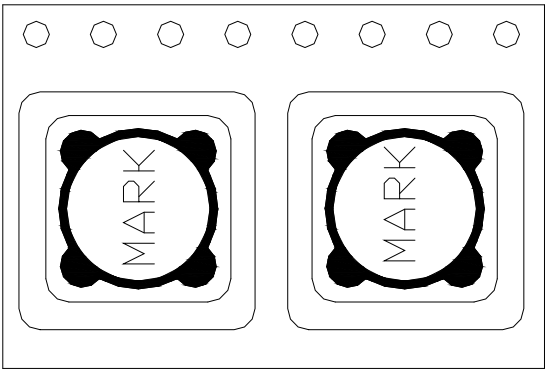
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6. TAPE DIMENSIONS:



W	24.00±0.30	P	16.00±0.10	A0	12.40±0.10	B0	12.40±0.10
E	1.75±0.10	P0	4.00±0.10	K1	7.80±0.10	D0	ø1.50 <sup>+0.10</sup> <sub>-0.00</sub>
T	0.50±0.05	P2	2.00±0.10	K0	8.25±0.10	D1	ø1.50 MIN
F	11.50±0.10						



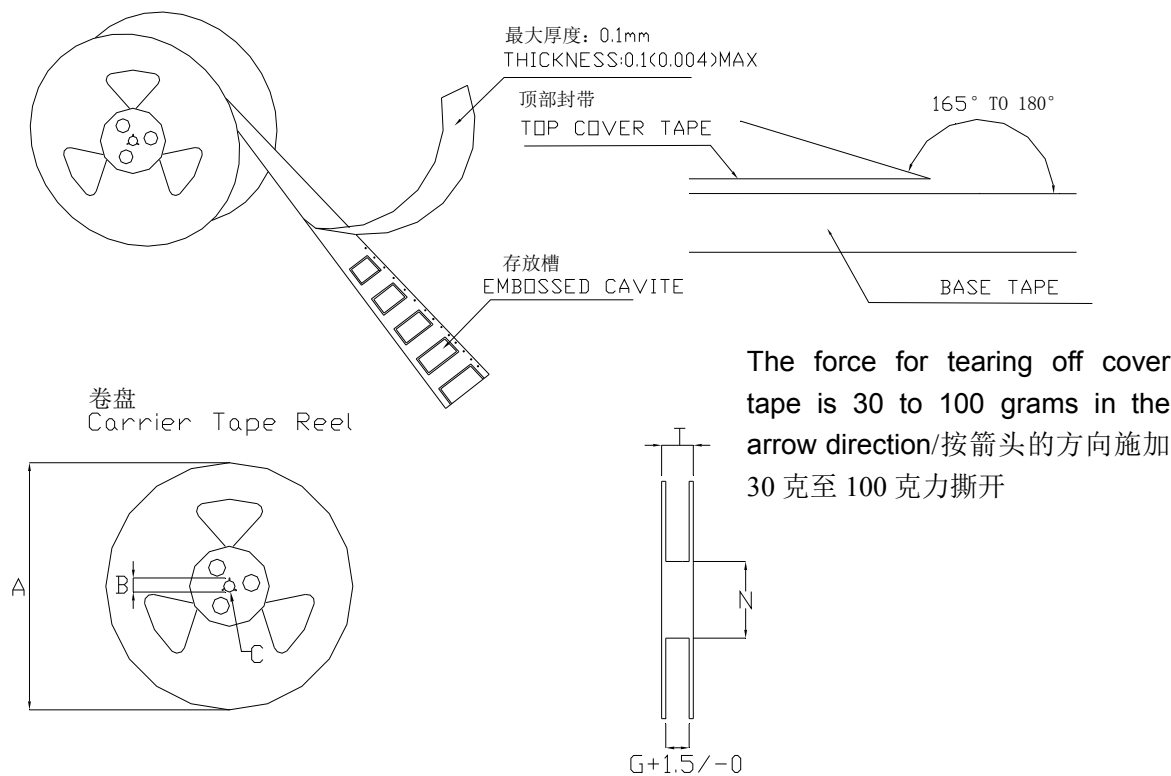
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7. TAPE REEL DIMENSIONS:



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 :  
500 PCS /REEL

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