

SPECIFICATION FOR APPROVAL

承認書

CUSTOMER

客戶名稱：

NUMBER

編號: 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 CDH127-111M
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History of change

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
A0	2024-04-19	New release	/	

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SPECIFICATIONS

TYPE:

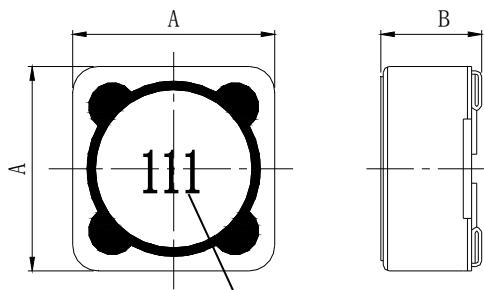
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1. Scope

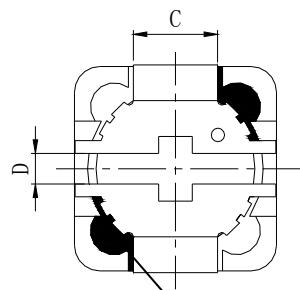
This specification apply for CDH127 of power inductors

2. Appearance

2-1. Dimensions(mm)



Font size: Width 7.1*High3 Song ti

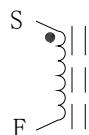


A	12.3mm(Max)
B	8.0mm(Max)
C	5.0 mm
D	2.0 mm

* 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.



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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	110 μ H \pm 20% Within	100KHz/0.25V	CH1062/HIOKI3532-50
D.C.R	220m Ω Max	25°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

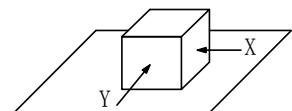
4. General Characteristics

4-1. Storage Temperature range : -40°C ~ +105°C

4-2. Operating temperature range: -40°C ~ +105°C (Including coil's self temperature rise)

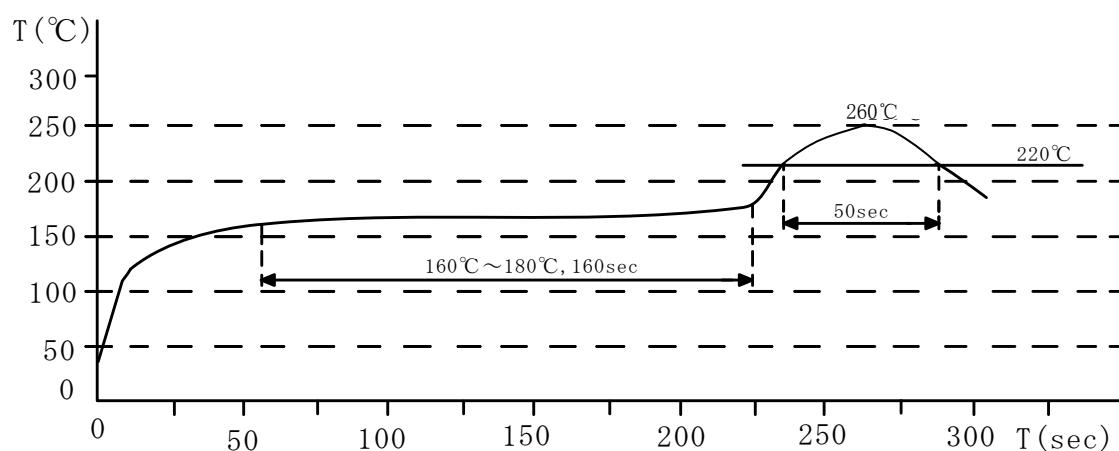
4-3. External appearance : No external defects can be found in the visual inspection.

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

4-6. Recommended reflow condition :



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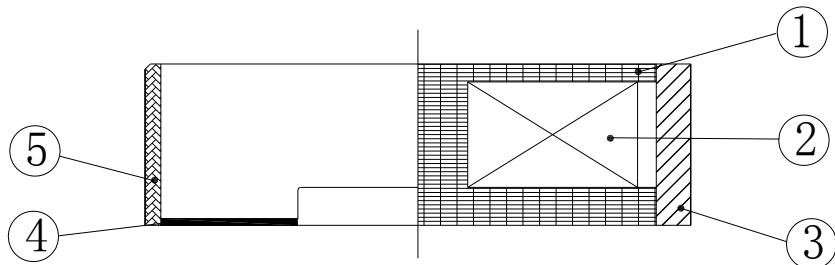
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $40 \pm 2^\circ\text{C}$, and 1 hour storage under room ambient conditions after the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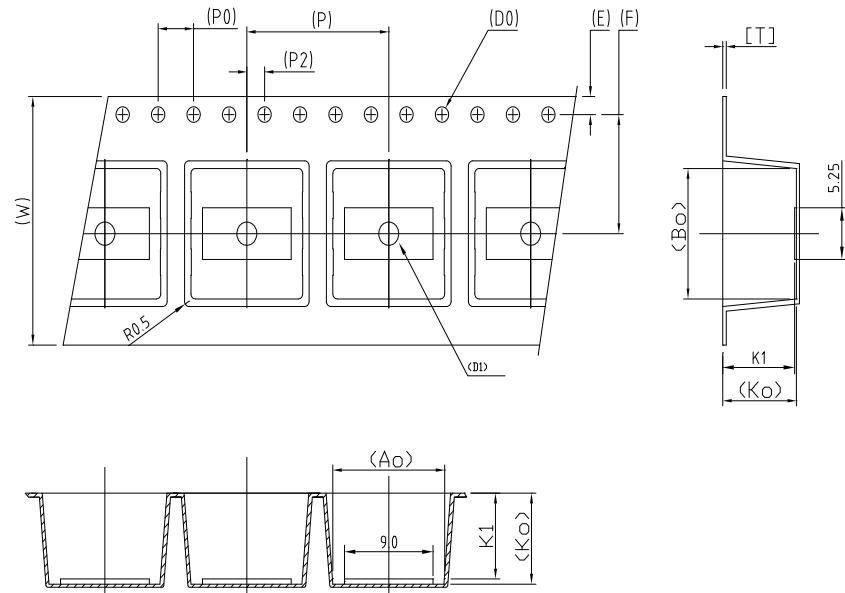
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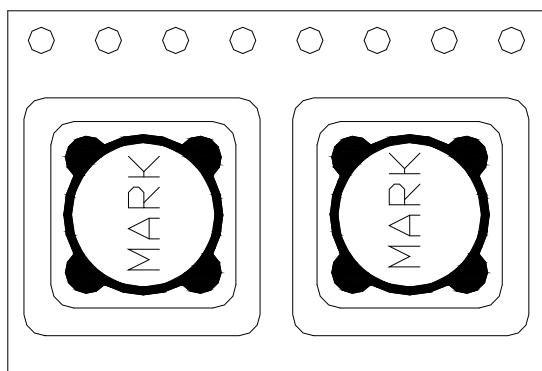
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6. TAPE DIMENSIONS:



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	$\phi 1.50^{+0.10}_{-0.00}$
T	0.50 ± 0.05	P2	2.00 ± 0.10	K0	8.25 ± 0.10	D1	$\phi 1.50 \text{ MIN}$
F	11.50 ± 0.10						



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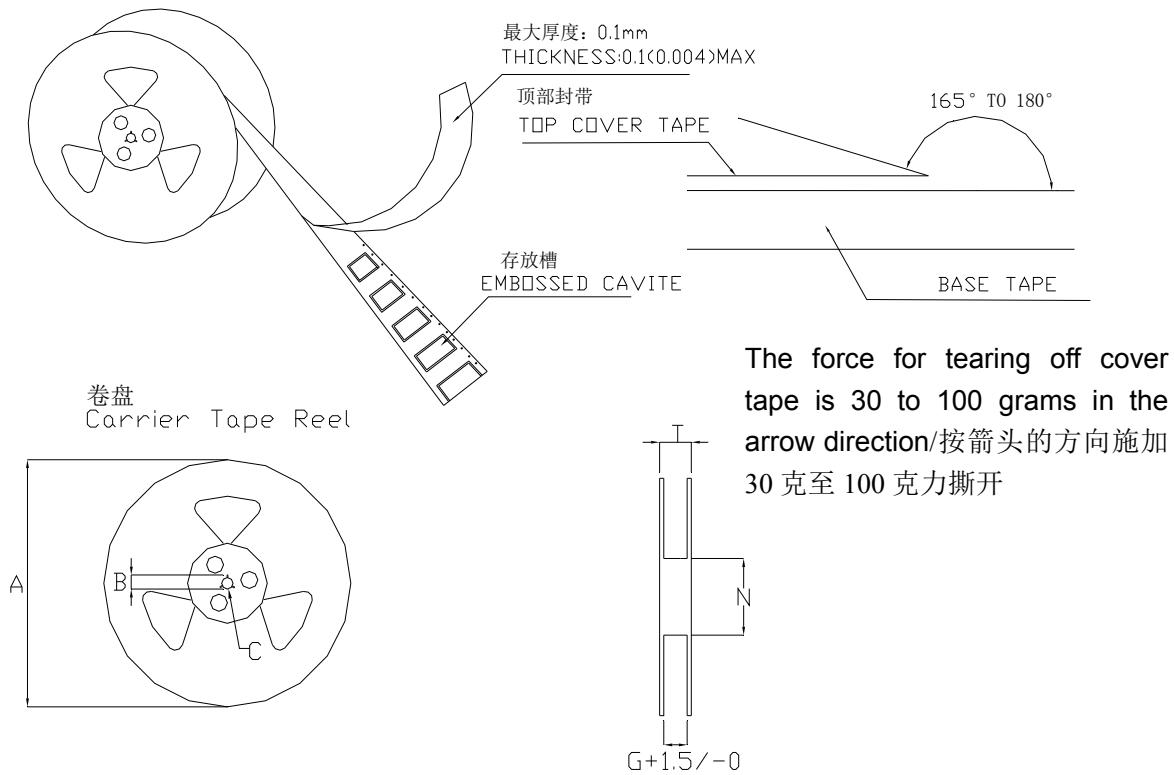
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7. TAPE REEL DIMENSIONS:



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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