

零件承认书

SPECIFICATION FOR APPROVAL

客户名称：001

增益型号：ZECD73-100M-NC

规格描述：CD73 10UH $\pm 20\%$ 2A 印字NC

日期：2024/10/08

版本：A

增益签核：

制订	审核	核准
夏琳		李万

客户签核：

工程	审核	核准



东莞市增益实业有限公司

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物料类型：

贴片电感

日期：

2024/10/08

版本：

A

图 面 规 格 变 更 履 历 表

客户		0	料号		品名	
客户版本	增益版本	变更内容	日期	制定	审核	核准
	A	初版	2024/10/08	夏琳		李万

SPECIFICATIONS

ZECD73-100M-NC

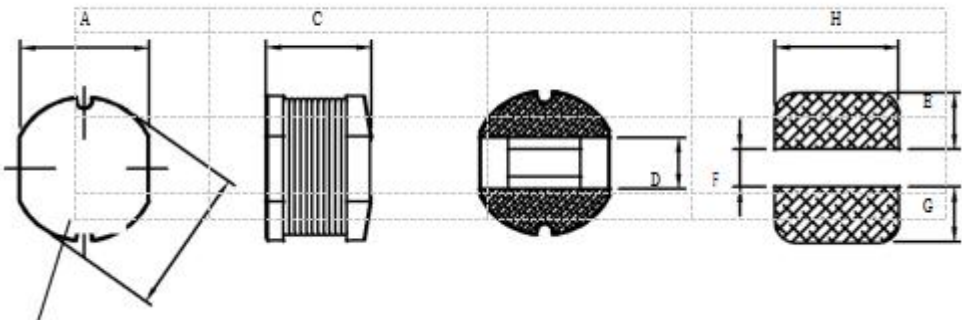
1. Scope

This specification apply for HSM105 of power inductors

2. Appearance

2-1.Dimensions(mm)

2-2.Recommended Land



A	8MAX
C	4MAX
D	2.6MAX
E	2.6MAX
F	2.6MAX
H	7.5MAX
G	2.8MAX

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3. Coils Specification

3-1. Connection (Bottom View)



“S” is winding start

3-2. Turns and Wire

Terminal	S-F
Turns	REF
Wire	0.35mm*1P G1 P180&2UEW-H

* Winding Turns are approx.



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3-3. Electronical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	10 μ H $\pm$ 20% Within	100KHz/0.25V	TH2816B
D.C.R	0.07 Ω Max	25 $^{\circ}$ C	VR131
I.D.C※	2.0A	100KHz/0.25V	TH2816B&VR7210

※ This indicates the value of current when the inductance is 30% 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 .($T_a=20^{\circ}\text{C}$)

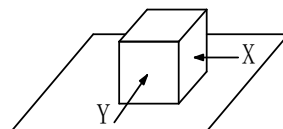
4. General Characteristics

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)

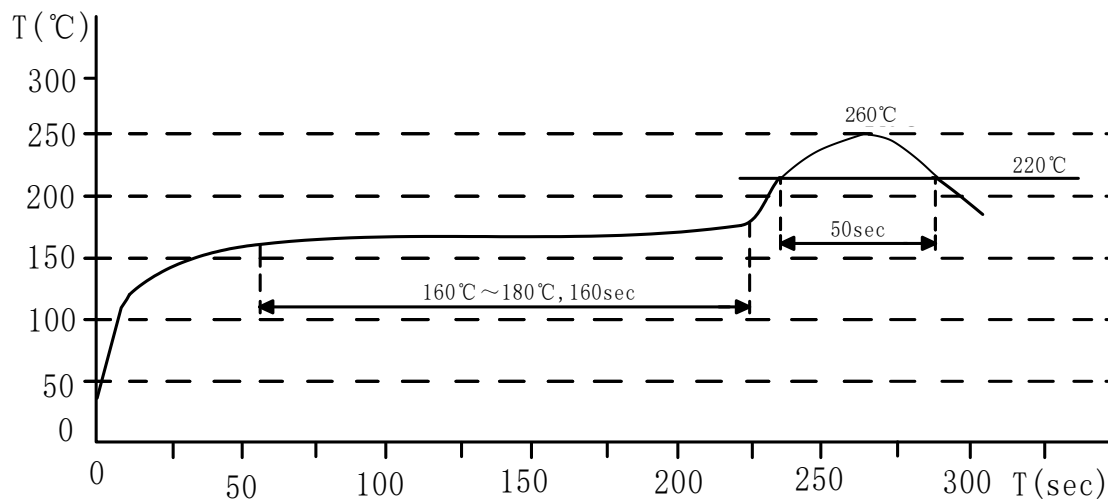
4-3. External appearance : No external defects can be found in the visual inspection.

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 :



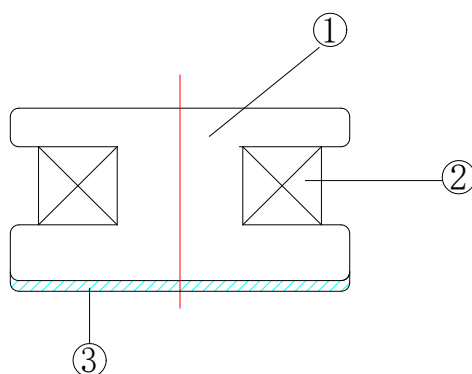
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4-7.Humidity test : Inductance deviation is within $\pm 5.0\%$ after 96 ± 4 hours test under the condition of relative humidity of $90 \sim 95\%$ and temperature of $40 \pm 2^{\circ}\text{C}$, and 1 hour storage under room ambient conditions after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

5. Construction and materials

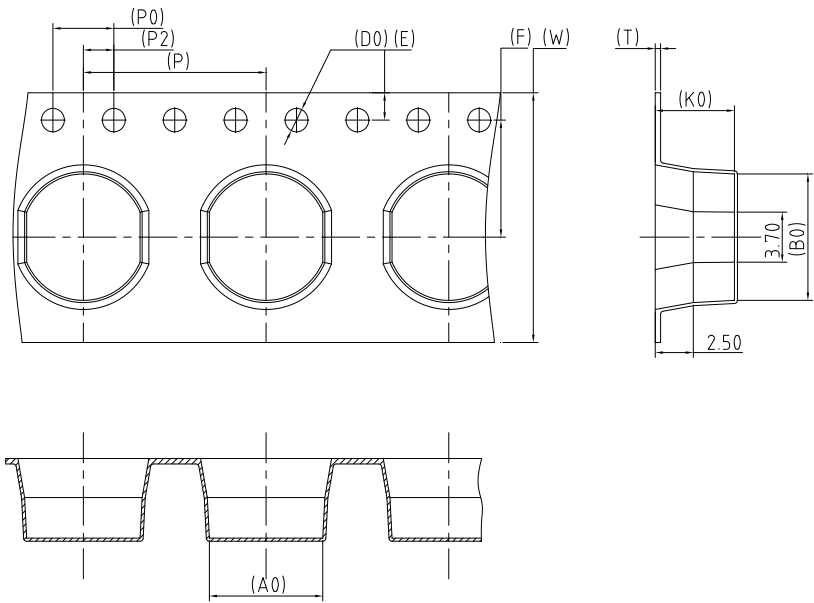


No.	Part name	Material	Remark
①	Drum Core	Ni-Zn Ferrite Core	
②	Wire	Polyurethane enameled copper wire	
③	Electrode	Cu + Sn plating	

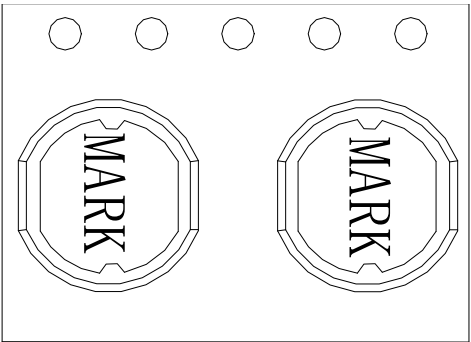
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6. TAPE DIMENSIONS:



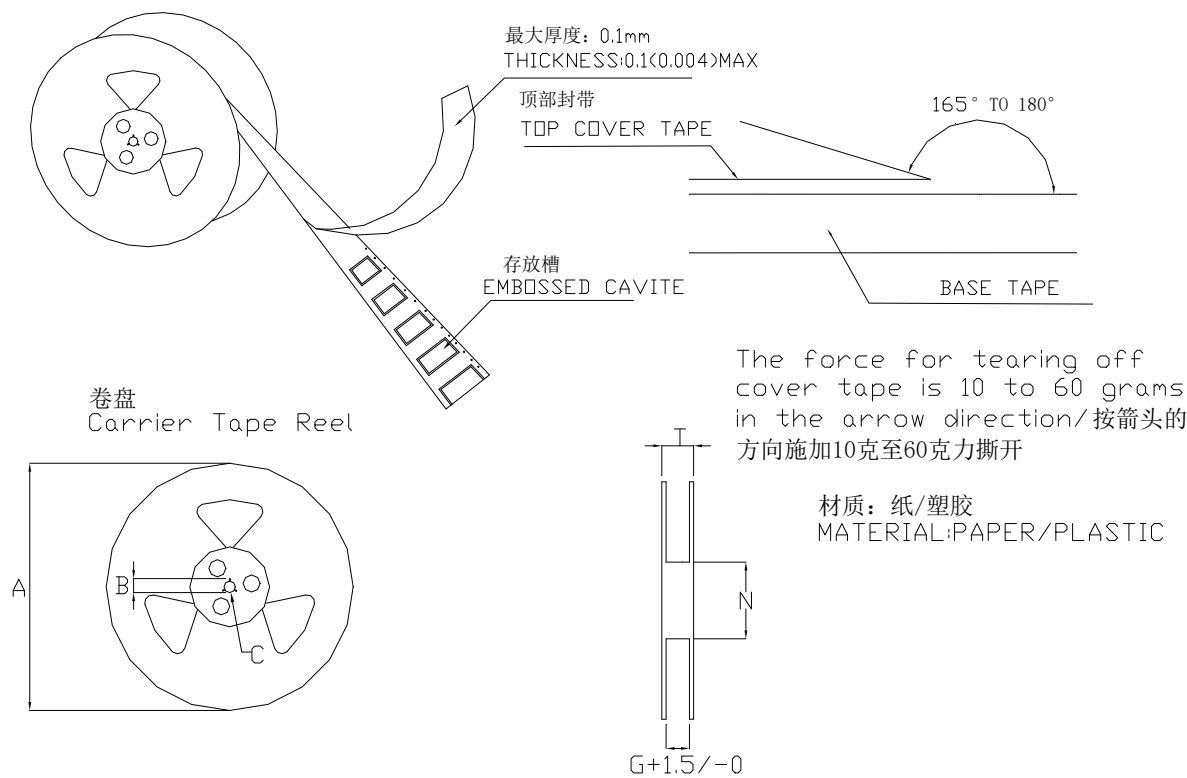
W	16.00±0.30	P	12.00±0.10	A0	7.20±0.10	B0	ø8.10±0.10
P0	4.00±0.10	P2	2.00±0.10	E	1.75±0.10	F	7.50±0.10
D0	ø1.50 ^{+0.10} ₋₀	K0	5.50±0.10	T	0.40±0.03		



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7. TAPE REEL DIMENSIONS:



单位：毫米

Type	A	B	C	G	N	T
16mm	330	21±0.8	13±0.4	16.4	100	20.4

PACKAGING QUANTITY :
1000PCS /REEL