

零件承认书

SPECIFICATION FOR APPROVAL

客户名称: 立创

客户料号: _____

增益料号: _____

规格描述: CD7835 10UH ±20% 0.35 2A (印字NC)

日 期: 2023/9/11

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

地址: 东莞市塘厦镇林村塘厦大道北552号

电话: 0769-87321000

传真: 0769-87891229

物料类型:

贴片电感

日 期:

2023/9/11

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	2023/9/11	夏琳		李万
 东莞市增益实业有限公司 地址：东莞市塘厦镇林村塘厦大道北552号 电话：0769-87321000 传真：0769-87891229				物料类型：	贴片电感	
				日 期：	2023/9/11	
				版 本：	A	

SPECIFICATIONS

7835-10UH

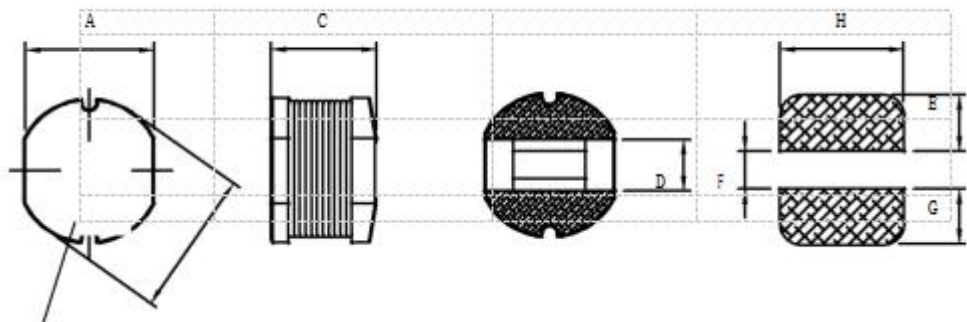
1. Scope

This specification apply for HSM105 of power inductors

2. Appearance

2-1.Dimensions(mm)

2-2.Recommended Land



A	8MAX
C	5MAX
D	2.6MAX
E	2.6MAX
F	2.6MAX
H	7.5MAX
G	2.8MAX

Font size: Width 3.8*High2.2 Song ti

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.



SPECIFICATIONS

TYPE:

7835-10UH

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 .($T_a=20^{\circ}\text{C}$)

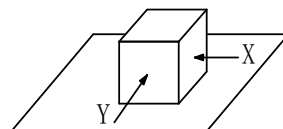
4. General Characteristics

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)

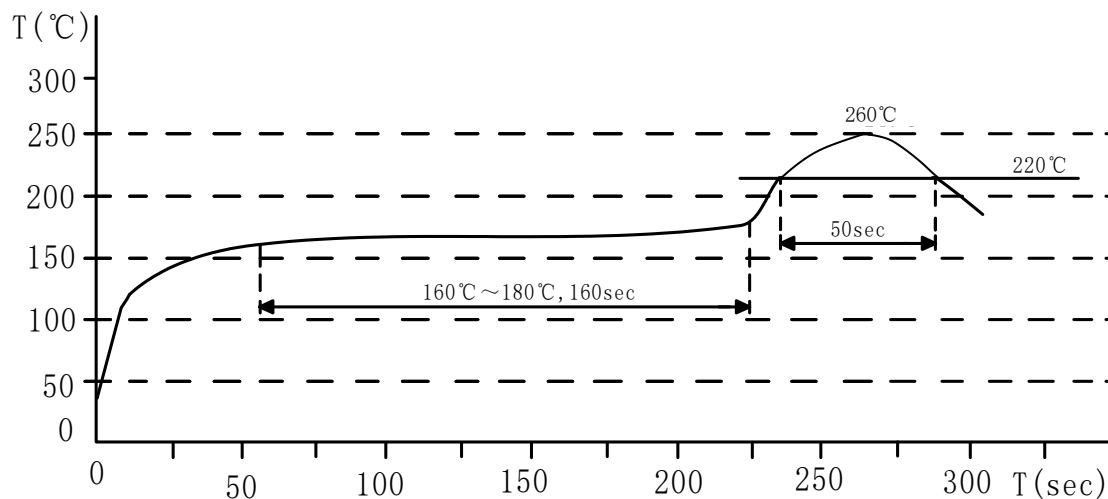
4-3. External appearance : No external defects can be found in the visual inspection.

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 :



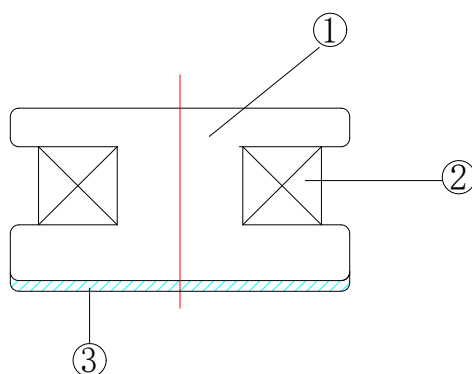
SPECIFICATIONS

TYPE:

7835-10UH

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

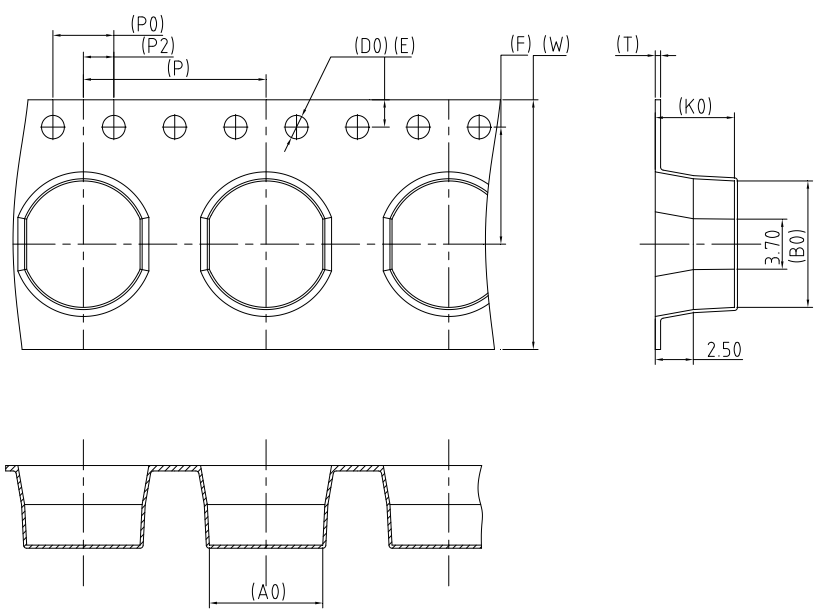


No.	Part name	Material	Remark
①	Drum Core	Ni-Zn Ferrite Core	
②	Wire	Polyurethane enameled copper wire	
③	Electrode	Cu + Sn plating	

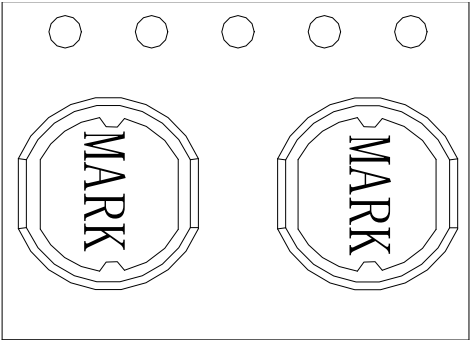
SPECIFICATIONS

TYPE 7835-10UH

6. TAPE DIMENSIONS:



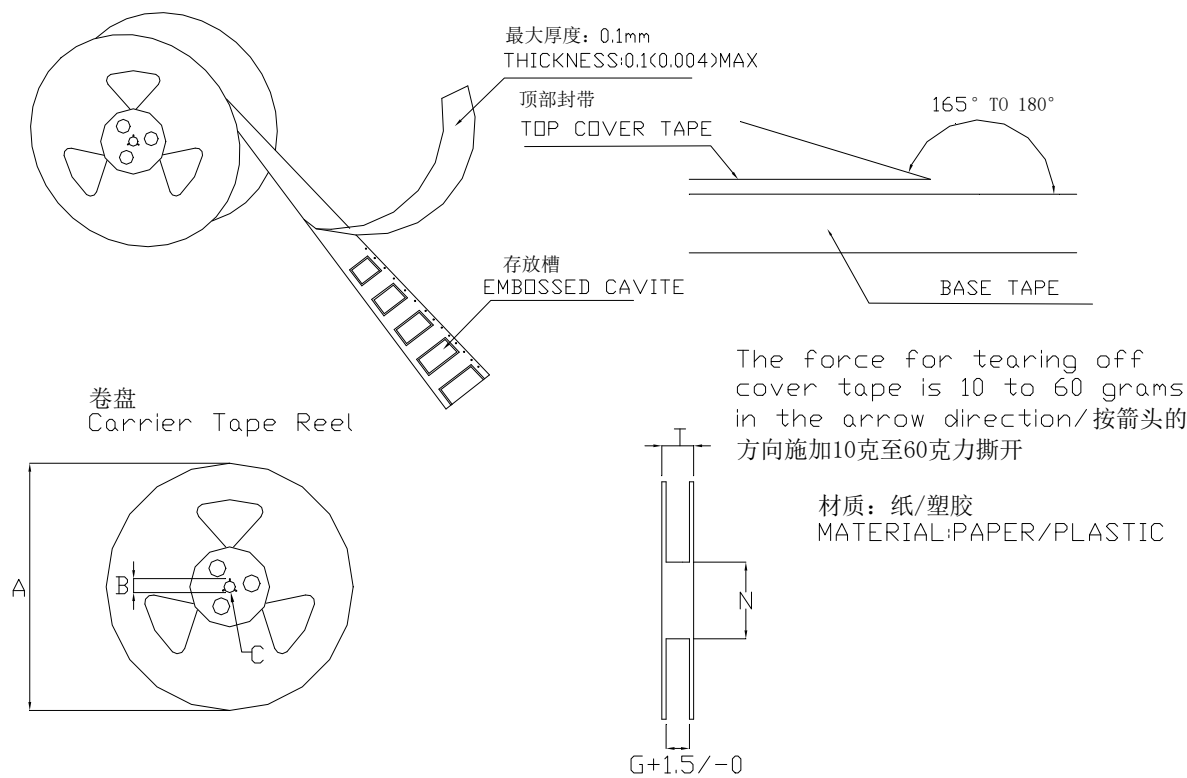
W	16.00 ± 0.30	P	12.00 ± 0.10	A0	7.20 ± 0.10	B0	$\phi 8.10 \pm 0.10$
P0	4.00 ± 0.10	P2	2.00 ± 0.10	E	1.75 ± 0.10	F	7.50 ± 0.10
D0	$\phi 1.50^{+0.10}_{-0}$	K0	5.50 ± 0.10	T	0.40 ± 0.03		



SPECIFICATIONS

TYPE:
7835-10UH

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 :
2000PCS /REEL