

**承認書**  
SPECIFICATION FOR APPROVAL

**CUSTOMER** : \_\_\_\_\_

**CUSTOMER P/N** : \_\_\_\_\_

**AMODE P/N** : ACDMR0740TW-100MT

**DESCRIPTION** : MOLDING INDUCTOR

**DATE** : 2022.2.16 ( Rev. A0 )

**FORM NO.** : KA-RD00-C001-00

客戶承認簽章			
承認編號	APPROVAL BY		

**成育科技股份有限公司**  
**AMODE TECH.LTD.**

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昆山電話 : Tel: 86-512-86160089 Fax: 86-512-86160087

CUSTOMER		CUST P/N		1 OF 6	Rev. A0
DESCRIPTION	MOLDING INDUCTOR	AMODE P/N	ACDMR0740TW-100MT	2022.2.16	

### REVISION HISTORY

REV	DATE	DESCRIPTION	APPROVED	CHECKED	DESIGNED
A0	2022.2.16	新发行	王汉卿	疏红松	袁玲玲



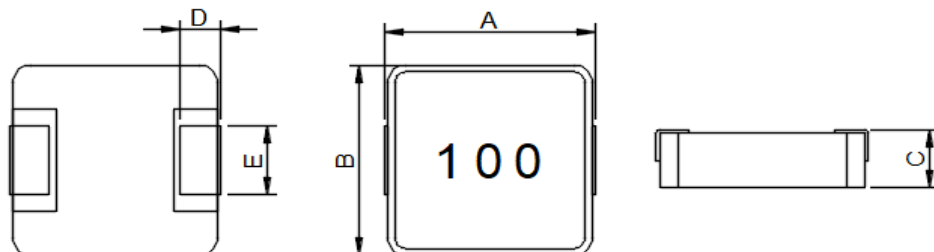
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CUSTOMER		CUST P/N		2 OF 6	Rev. A0
DESCRIPTION	MOLDING INDUCTOR	AMODE P/N	ACDMR0740TW-100MT	2022.2.16	

**MECHANICAL ASSEMBLY :**

**DIMENSIONS (mm)**



A	7.40 Max.
B	6.60 ± 0.2
C	4.00 Max.
D	1.60 ± 0.3
E	3.00 ± 0.2

MEAS. ITEM	SPEC.	UNIT	TEST FREQ.	TEST INSTRUMENT						
L	10.0 ± 20%	uH	100KHz / 1V	VR113H LCR METER VR131 DCR METER VR113H 連 VR712 恆流源						
DCR	70.0 Max.	mΩ	<b>PAD LAYOUT (mm)</b> <table border="1" style="margin-top: 10px;"> <tr> <td>L</td> <td>G</td> <td>H</td> </tr> <tr> <td>8.7</td> <td>3.7</td> <td>3.5</td> </tr> </table>	L	G	H	8.7	3.7	3.5	
	L			G	H					
8.7	3.7	3.5								
59.0 Typ.										
Isat	12.0 Typ.	A [※1 (30%)]								
Irms	5.0 Typ.	A [※2 (ΔT=40°C)]								

**REMARK :**

1). SOLDER : 用無鉛無鹵製程 (重點)

※1: Saturation Current (Isat) will cause L0 to drop ≤ 30% typical. (keep quickly).

its nominal value. (Ta=25±5°C)

※2: Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt ≤ 40°C (keep 1min.).

its nominal value. (Ta=25±5°C)

※3: Operating Temperature: -55°C ~ +125°C

※4: Storage Temperature: -55°C ~ +125°C

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## 1. PART NUMBERING

A	CDMR	0740	TW	-	100	M	T
A	B	C	D		E	F	G

**A: Amode**

**B: Inductor series**

**C: Dimension**                      L\*W\*T

**D: Type**

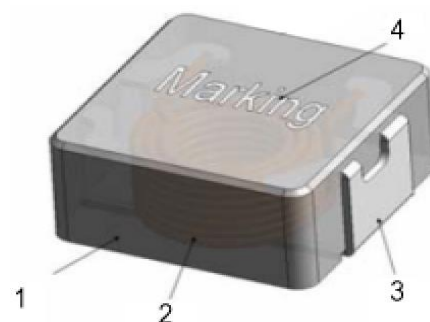
**E: Inductance**                      100=10uH

**F: Inductance Tolerance**        M=±20%

**G: Reel Packing**                    包装为卷轴式

## 2. MATERIAL LIST

No.	Items	Materials
1	Core	Molding core
2	Wire	Polyester wire or equivalent
3	Clip	Unleaded and non halogen-free
4	Ink	Halogen-free ketone



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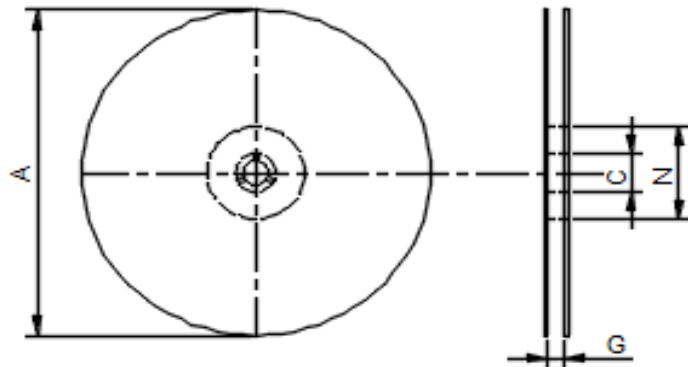
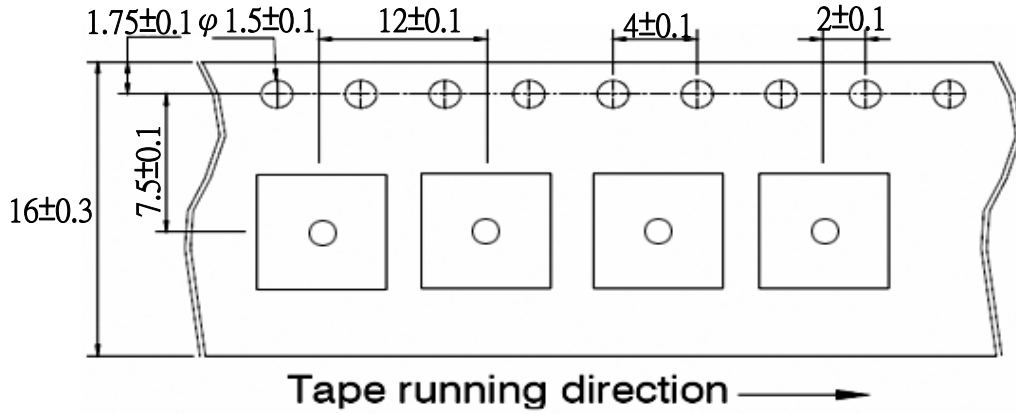
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**1. PACKAGING QUANTITIES:**



REEL TAPE	16 mm
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Dimensions in mm

TAPE	A	C	G	N	PCS / REEL
16	330±2	13±1	16.4±2	100±2	1000 PCS



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### RELIABILITY TEST

Test Items	Test Conditions	Criteria
1.Low temperatrue storage	Placed at -55℃ for 1000 hours,then measured at room ambient temperature after placing 24 hours	Inductance shall be within±10% of the initial value
2.High temperatrue storage	Placed at +125℃ for 1000 hours,then measured at room ambient temperature after placing 24 hours	Inductance shall be within±10% of the initial value
3.Thermal shock	-55℃,30min~+125℃,30min,500 hours	Inductance shall be within±10% of the initial value
4.Humidity resistance	Placed at 90 to 95% RH,60℃ for 1000 hours.Then measured at room ambient temper temperature after placing 24 hours	Inductance shall be within±10% of the initial value.
5.Drop	Drop specimen three times on concrete floor from a height of 1 meter which mounted on test board	Inductance shall be within±10% of the initial value
6.Vibration	Frequency:10~55~10Hz Amplitude:1.5mm ro 10G Sweep time:lock/min Test Directions:X,Y,Z Test Time:2 hours each direction	Inductance shall be within±10% of the initial value
7.Terminal strength	Add static load 14.7N(1.5kgf)to inductor hole of test board for 10±2sec	No detachment of terminal pin and no breakage of wire
8.Soldering heat resistance	Dip inductor's terminal in solder bath of following conditions (1)260±5℃,10±1sec (2)245 ±5℃,5.0±1sec	Inductance shall be within±10% of the initial value,Appearance:No damage



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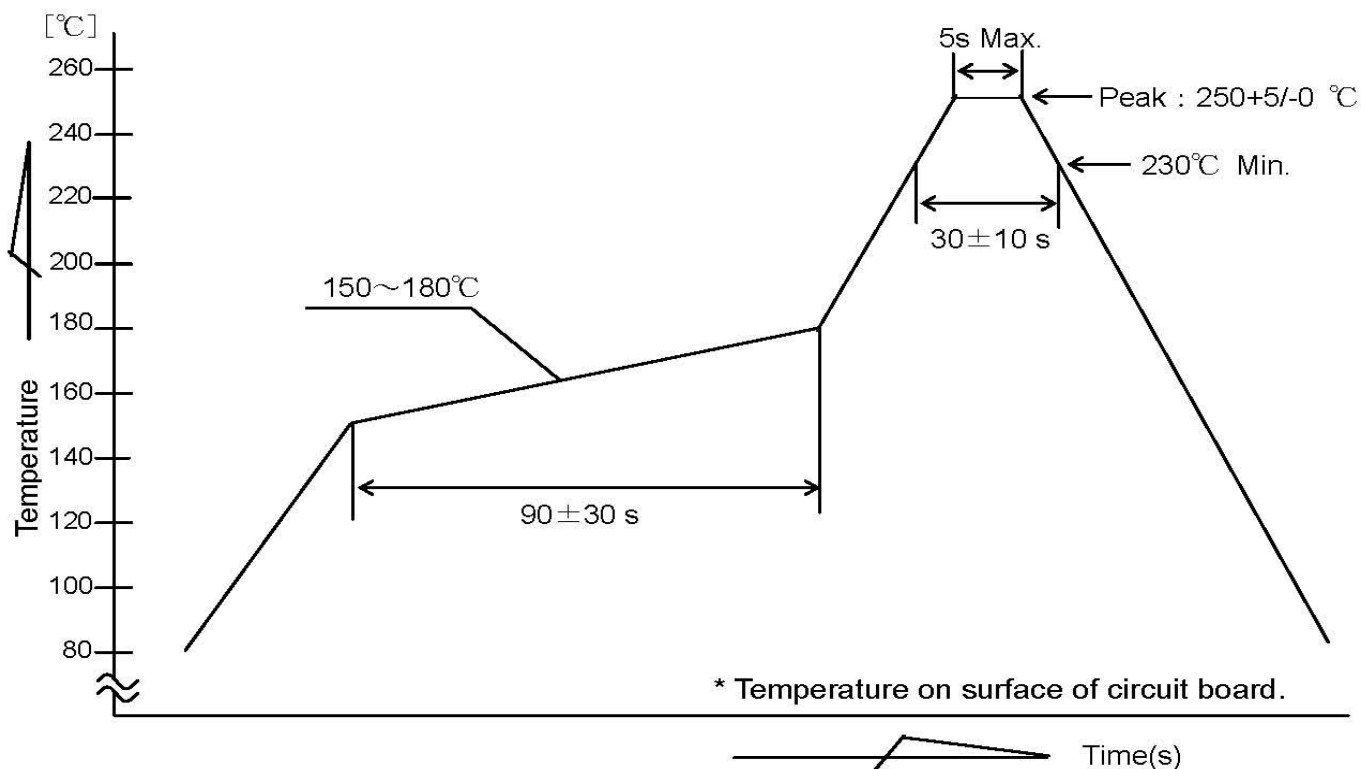
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## REFLOW PROFILE CHART (REFERENCE)



The products may be exposed to reflow soldering process of above profile up to two times.

### 保管與儲存:

- ★ 請將本產品遠離磁鐵或磁性材料。
- ★ 請勿重壓, 避免落下或碰撞等過度機械撞擊。
- ★ 本產品應在溫度:  $25 \pm 5^\circ\text{C}$ , 濕度60%以下的環境中存放。
- ★ 為保證良好的焊接性, 請於出廠日12個月內使用, 超出12個月時請先確認其焊接性。



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