

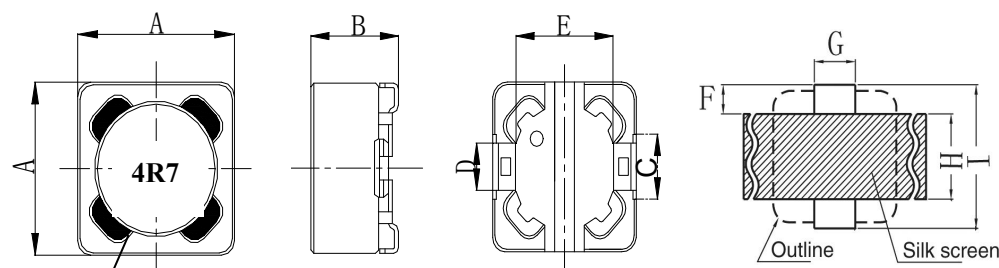
## 1. Scope

This specification apply for L74R of power inductors

## 2. Appearance

### 2-1.Dimensions(mm)

### 2-2.Recommended Land



Font size: Width 2.9\*High1.6(Black) Song

\* Dimension without tolerance is approx.

A	7.3±0.2mm
B	4.5mm MAX
C	2.7 mm REF
D	2.0 mm REF
E	5.4 mm REF
F	1.6 mm REF
G	2.2 mm REF
H	4.8 mm REF
I	7.8 mm REF

## 3. Coils Specification

### 3-1. Connection (Bottom View)



“S” is winding start

### 3-2. Turns and Wire

Terminal	S-F
Turns	Winding Turns are approx
Wire	0.45mm*1P G1 P180&2UEW-H

### 3-3. Electrical characteristics

Item	Specifications	Measuring Conditions	Measuring Instrument
Inductance	4.7 UH $\pm$ 20% Within	100KHz/0.25V	TH2816B
D.C.R	30 m $\Omega$ MAX	25°C	VR131
※ I <sub>ast</sub>	7A MAX	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 .( $T_a=20^{\circ}\text{C}$ )

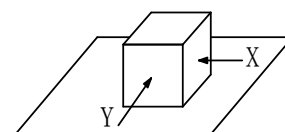
## 4. General Characteristics

4-1. Storage Temperature range :  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

4-2. Operating temperature range:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$  (Including coil's self temperature rise)

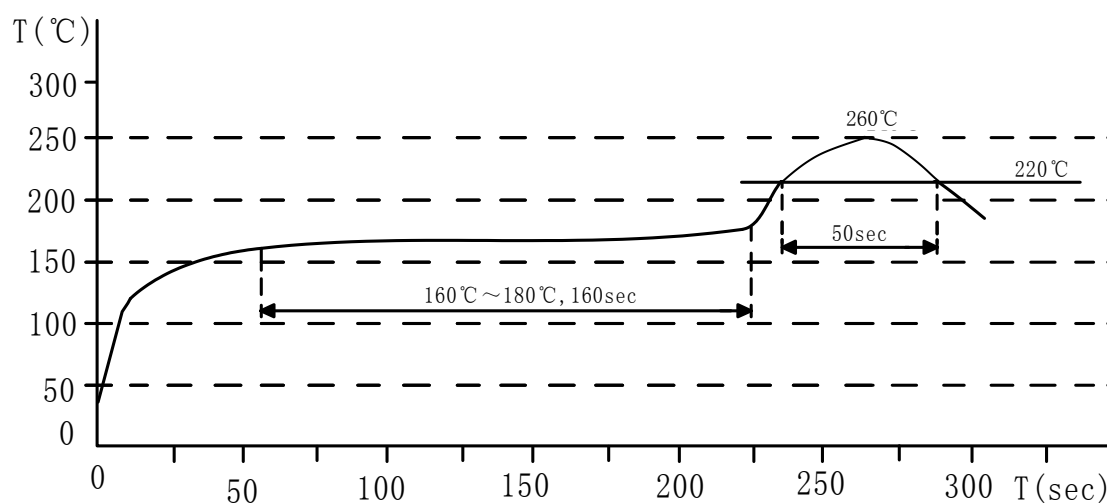
4-3. External appearance : No external defects can be found in the visual inspection.

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  $10 \pm 2$  seconds after soldering between copper plate and the electrodes. (Refer to figure at right)



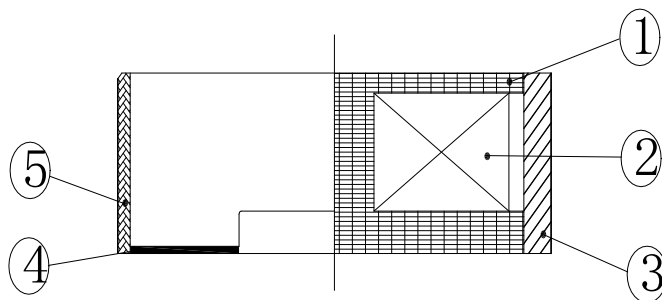
4-5. Vibration test : Inductance deviation is within  $\pm 3.0\%$  after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is  $10 \sim 55 \sim 10\text{Hz}$  and the amplitude of 1 minute cycle is 1.5mm PP.

4-6. Recommended reflow condition :



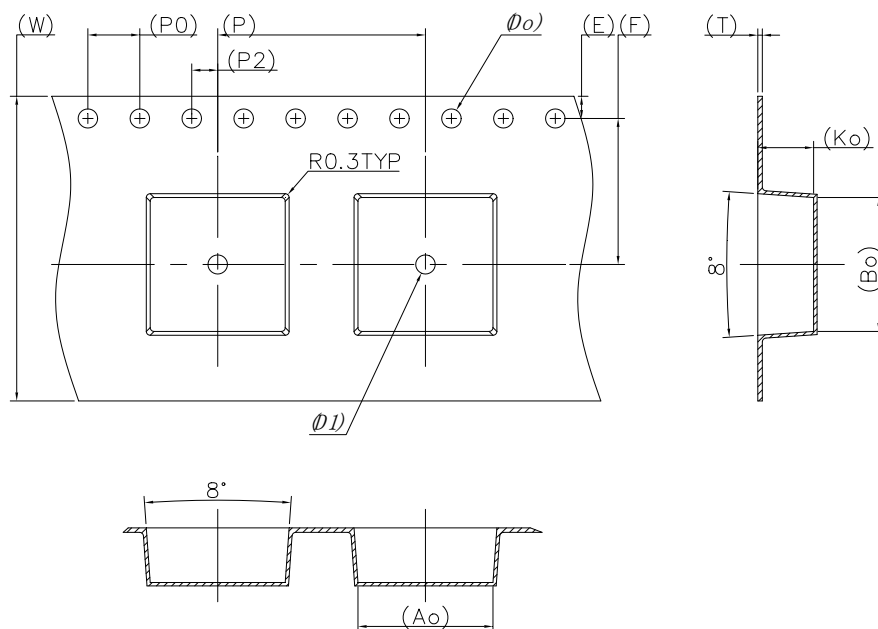
4-7.Humidity test : Inductance deviation is within  $\pm 5.0\%$  after  $96 \pm 4$  hours test under the condition of relative humidity of  $90 \sim 95\%$  and temperature of  $40 \pm 2^\circ\text{C}$ , and 1 hour storage under room ambient conditions after the device is wiped with dry cloth.

## 5. Construction and materials

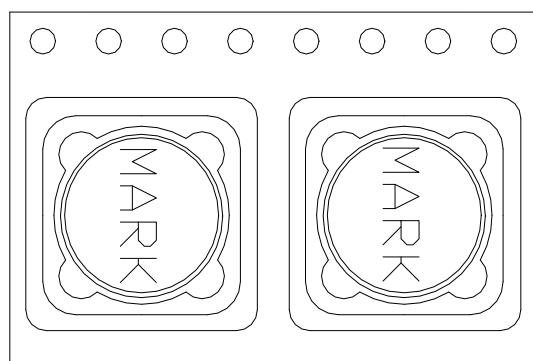


No.	Part name	Material	Remark
①	Drum Core	Ni-Zn Ferrite Core	
②	Wire	Polyurethane enameled copper wire	
③	Ring Core	Ni-Zn Ferrite Core	
④	Adhesive	Epoxy Resin	
⑤	Electrode	Cu + Sn plating	

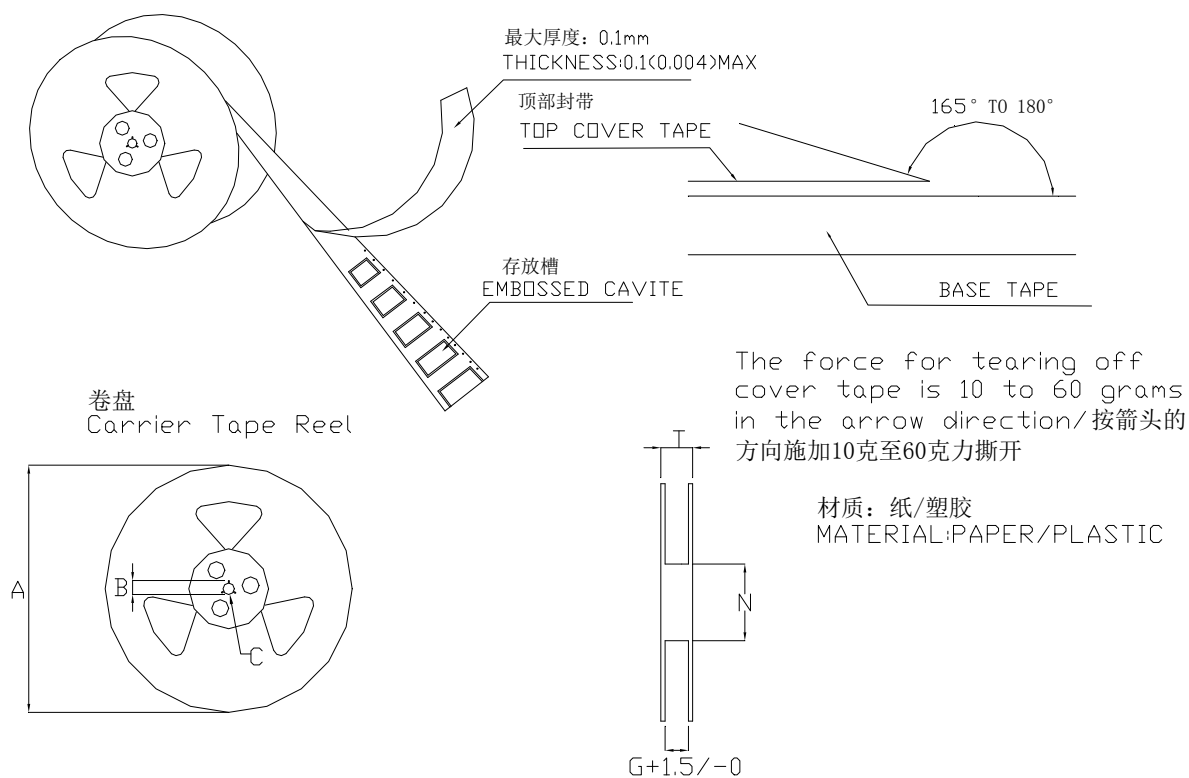
## 6. TAPE DIMENSIONS:



W	$16.00 \pm 0.30$	P	$12.00 \pm 0.10$	A0	$7.90 \pm 0.10$	B0	$7.90 \pm 0.10$
E	$1.75 \pm 0.10$	P0	$4.00 \pm 0.10$	T	$0.40 \pm 0.05$	D1	$\phi 1.50 \pm_{-0}^{0.10}$
K0	$4.80 \pm 0.10$	P2	$2.00 \pm 0.10$	F	$7.50 \pm 0.10$	D0	$\phi 1.50 \pm_{-0}^{0.10}$



## 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:

1000 PCS /REEL