

Customer: SUMIDA AMERICA INC.		Specification (Revisions)	Type CMD 4 D 1 3
Symbol	Date	No.	Revisions Client
△ <sub>1</sub>	25th. Nov., 2021	PD16-20-0640-1154	Packing specification C-Lab Iris Wei Carrier tape packing specification in detail. (S-0074-2029←S-074-5121) Changed(P. 3/3)

Note :	Spec. No. S - 0 2 2 7 - 5 6 4 3 1 / 3
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# Specification

Type

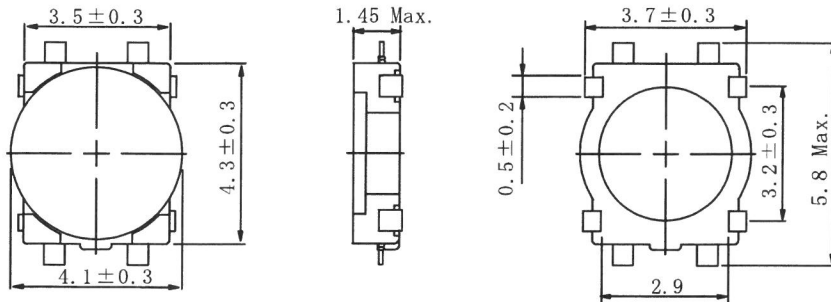
CMD 4 D 1 3

## 1. Scope and general stipulations.

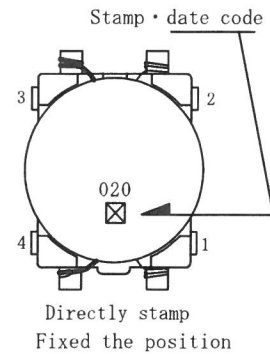
Ref. to S-074-1511.

## 2. Appearance

### 2-1. Dimensions (mm)

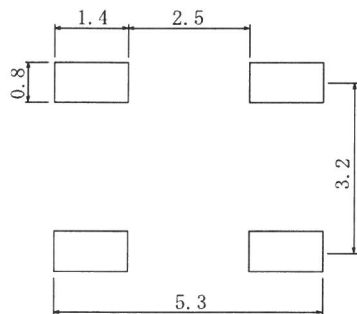


### 2-2. Stamp



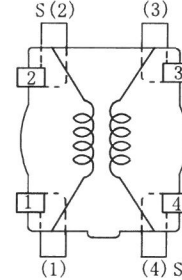
\* Dimension without tolerance are approx.

### 2-3. Recommended land pattern dimensions (mm)



## 3. Coil specification

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



"S" is winding start.

### 3-2. Turns and wire

No.	2 - 1	4 - 3
Turns	1 3 $\frac{1}{2}$ T	6 6 $\frac{1}{2}$ T
Wire	0.05 UEW	

\* Winding turns: Approx.

RoHS

compliance

Cd:Max. 0.01wt%

others:Max. 0.1wt%

### 3-3. Electrical characteristics

		Measuring conditions
Inductance (4 - 3)	110 $\mu$ H $\pm$ 20% Within	100 kHz
D.C.R. (4 - 3)	4.2 $\Omega$ $\pm$ 15% Within	at 20°C
Rated current (4 - 1) ※	95 mA	2, 3 to be shorted

※ The DC current when the inductance decreases to 10% of initial value or DC current when the temperature of coil is increased by 40°C (Ta=20°C). The smaller one is defined as rated current.

Made: 7 t h. M a y , 2 0 0 6			Part No.	4 3 6 5 - T 0 2 0 N P	
Chk.	Chk.	Drg.	SUMIDA code	0 4 3 6 5 0 1 3 3	
YU WEIWEN	WEI YANCHUN	XIAO ZHIWEI YH	Sample No.	4 3 6 5 - T 0 2 0	Spec. No. S - 0 2 2 7 - 5 6 4 3 2 / 3
			First issue		



# Specification

Type

CMD 4 D 1 3

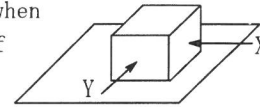
## 4. General characteristics

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  $60 \pm 5$  seconds after soldering between copper plate and the electrodes.  
(Refer to figure at right)



4-5.Heat endurance test : Refer to S-074-1516.

4-6.Recommended reflow condition : Refer to S-074-1518.

4-7.Temperature feature : Inductance coefficient is  $(0 \sim 1500) \times 10^{-6}/^{\circ}\text{C}$  ( $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$ )

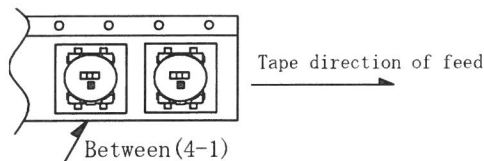
4-8.Vibration test : Inductance deviation is within  $\pm 2.0\%$  after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is  $10 \sim 55 \sim 10\text{Hz}$  and the amplitude of 1 minute cycle is 1.5mm PP.

4-9.Shock test : Inductance deviation is within  $\pm 2.0\%$  after the test with gum-block shock testing machine, once in each of the three perpendicular axis directions. The shock acceleration is  $981\text{m/s}^2$ .

4-10.Humidity test : Inductance deviation is within  $\pm 2.0\%$  after  $96 \pm 4$  hours test under the condition of relative humidity of 90~95% and temperature of  $40 \pm 2^{\circ}\text{C}$ , and 1 hour storage under room ambient conditions.

## 5. Packing specification

5-1.Enclosing condition of coils.



5-2. Carrier tape packing specification in detail. (S-0074-2029) 

## 6. Note

\* Precaution in use ultra thin wire ref. S-074-5029.

Note :

Spec. No.

S - 0 2 2 7 - 5 6 4 3

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