

Customer: SUMIDA AMERICA INC.		Specification (Revisions)		Type CMD 4 D 1 3
Symbol	Date	No.	Revisions	Client

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

Specification

Type

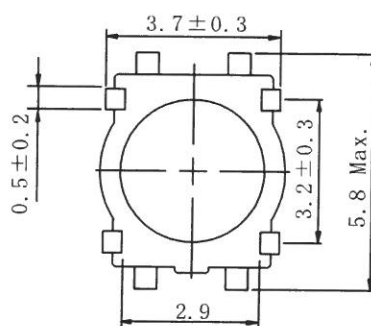
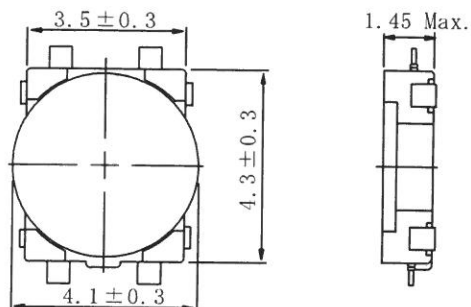
CMD4D13

1. Scope and general stipulations.

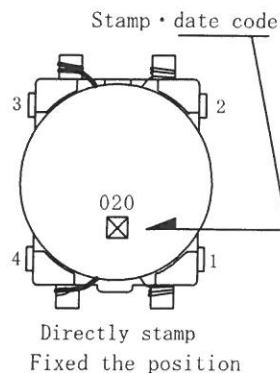
Ref. to S-074-1511.

2. Appearance

2-1. Dimensions (mm)

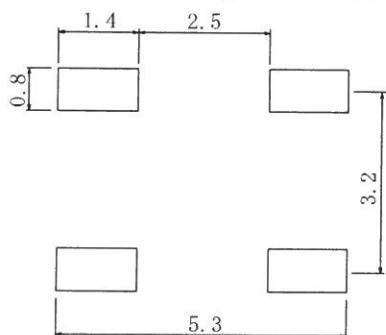


2-2. Stamp



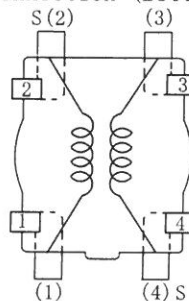
* Dimension without tolerance are approx.

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 ½ T	6 6 ½ 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 μH ± 20% Within	100 kHz
D.C.R. (4-3)	4.2 Ω ± 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	Sample No.	4 3 6 5 - T 0 2 0	Spec. No.
			First issue		S - 0 2 2 7 - 5 6 4 3

2 / 3

Specification

Type

CMD 4 D 1 3

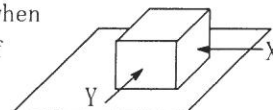
4. General characteristics

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 ± 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 : Refer to S-074-1518.
condition

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

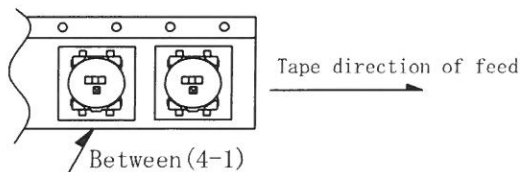
4-8.Vibration test : Inductance deviation is within $\pm 2.0\%$ after 1 hour sweeping vibration in each three directions, namely, forward and backward, up and down, right and left. The frequency is $10 \sim 55 \sim 10\text{Hz}$ and the amplitude of 1 minute cycle is 1.5mm PP.

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 981m/s^2 .

4-10.Humidity test : Inductance deviation is within $\pm 2.0\%$ 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.

5. Packing specification

5-1.Enclosing condition of coils.



5-2. Carrier tape packing specification in detail. (S-074-5121)

6. Note

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

Note :

Spec. No.

S - 0 2 2 7 - 5 6 4 3

3 / 3