## MODEL NO：RA series

DIMENSION：（UNIT：mm／inches）


| Prod No． | No．ofP0S | DIM．A | DIM．B |
| :---: | :---: | :---: | :---: |
| RA－01 | 01 | $3.84(0.151)$ |  |
| RA－02 | 02 | $6.08(0.239)$ | $2.54(0.100)$ |
| RA－03 | 03 | $8.92(0.351)$ | $5.08(0.200)$ |
| RA－04 | 04 | $11.16(0.439)$ | $7.62(0.300)$ |
| RA－05 | 05 | $13.70(0.539)$ | $10.16(0.400)$ |
| RA－06 | 06 | $16.24(0.639)$ | $12.70(0.500)$ |
| RA－07 | 07 | $19.08(0.751)$ | $15.24(0.600)$ |
| RA－08 | 08 | $21.32(0.839)$ | $17.78(0.700)$ |
| RA－09 | 09 | $24.16(0.951)$ | $20.32(0.800)$ |
| RA－10 | 10 | $26.40(1.039)$ | $22.86(0.900)$ |
| RA－12 | 12 | $31.48(1.239)$ | $27.94(1.100)$ |



CONSTRUCTION

| 一般公差 |  |
| :---: | :---: |
| 尺寸範圍 | 容許値 |
| $0-4$ | $\pm 0.05$ |
| $4-16$ | $\pm 0.1$ |
| $16-50$ | $\pm 0.15$ |


| ITEM | DES | MATERIALS | TREATMENT |
| :---: | :---: | :---: | :---: |
| 1 | ACTUATOR | UL94V－0 PBT <br> THERMOPLASTIC | WHITE |
| 2 | COVER | UL94V－0 PBT <br> THERMOPLASTIC | BLUE，RED．BLACK |
| 3 | BASE | UL94V－0 PBT <br> THERMOPLASTIC | BLACK |
| 4 | TERMINAL | PHOSPHOR BRONZE | GOLD PLATING |
| 5 | POTTING | EXPOXY | BLACK |

PART NO： RA－$\square \square$

| SCALE |  |
| :---: | :---: |
| UNIT |  |

## Models: RA/RAR SERIES DIP SWITCH

1. SPECIFICATIONS.

1-1. External appearance: Ref. Attached print.
1-2. Material \& treatment of parts: Ref. Attached print.
1-3. All materials are UL 94V-0 grade fire retardant plastics.

## 2. FEATURES

2-1. This switch is slide switch of one body type that each pole is parallel and it is constituted by one moving contact and two terminals.
2.2 Terminal plating by gold give excellent results when soldering.

2-3. RA series (raised actuator).
2-4. Low contact resistance, and self-clean on contact area.
2-5. High reliability.

## 3. ELECTRICAL

3-1. Electrical Life: 2000 operation cycles per switch -24VDC, 25mA.
3-2. Non-switching Rating: 100mA, 50VDC.
3-3. Switching Rating: 25mA, 24VDC.
3-4. Contact Resistance: (a) $50 \mathrm{~m} \Omega$ max. at initial.
(b) $100 \mathrm{~m} \Omega$ max. after life test.

3-5. Insulation Resistance: $100 \mathrm{M} \Omega$ min. at 500 VDC .
3-6. Dielectric Strength: 500VAC/1 minute.
3-7. Capacitance: 5pF max.
3-8. Circuit: Single pole single throw.

## 4. MECHANICAL

4-1. Mechanical life: 2000 operations per switch.
4-2. Operation Force: 800gf max.

## 4-3. Stroke: 2.0mm. Document No.3-E-05

4-4. Operation Temp: $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$
4-5. Storage Temp: -40 C to 85 C
4-6. Vibration Test: MIL-STD-202F METHOD 201A
Frequency: 10-55-10 Hz/1 min
Directions: X, Y, Z, three mutually perpendicular direction.

Time: 2 hours each direction. High reliability.

4-7. Shock Test: MIL-STD-202F METHOD 213B CONDITION A.
$4-8$. Gravity: 50 G (peak value), $11 \mathrm{~m} / \mathrm{sec}$.
$4-9$. Direction and times: 6 sides and 3 times in each direction. High reliability.

## 5. SOLDERING PROCESSES.

5-1. Keep all switch contacts in their "OFF" position for all operation.
5-2. Wave soldering: Recommended solder temperature at 500F (260 C) max. 5 seconds.
$5-3$. Hand soldering: Use a soldering iron of 30 watts, controlled at 608 F(320 C), approximately 2 seconds while applying solder.

## 6. FLUX CLEANING :

6-1. Solvent: Fluorine or Alcohol type.
6 -2. Cleaning shall be made when terminal temperature falls to 90 C or lower, or leave the switch at normal temperature for 5 minutes or longer, before cleaning.
6-3. Do not apply ultrasonic cleaning.
6-4. "LE" type are not washable.
$6-5$. Do not operate the switch during soldering and cleaning.

## 7. WEATHER-PROFF

7-1. Resistance Low Temperature:
(1) Temperature: $-40^{\circ} \mathrm{C} \pm 3^{\circ} \mathrm{C}$.
(2) Time: 96 hours.

7-2. Resistance High Temperature:
(1) Temperature: $85^{\circ} \mathrm{C} \pm 2^{\circ} \mathrm{C}$
(2) Time: 96 hours.

7-3. Resistance Humidity:
(1) Temperature: $40^{\circ} \mathrm{C} \pm 2{ }^{\circ} \mathrm{C}$
(2) Relative Humidity: 90-95\%
(3) Time: 96 hours.

