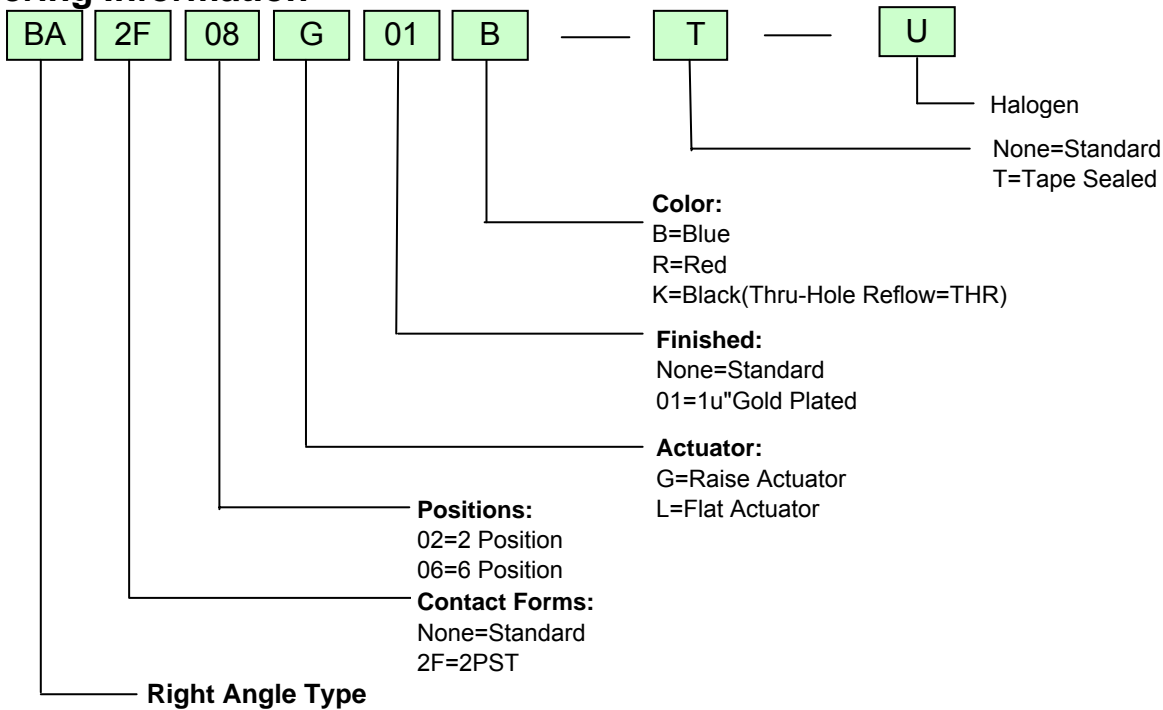


|                               |  |        |      |
|-------------------------------|--|--------|------|
| <b>MODEL</b>                  | <b>SPECIFICATION</b><br><b>RoHS Compliant DIP SWITCH</b> | SP-001 | Page |
| BA series<br>Right Angle Type |  |        | 1/4  |

### Ordering Information



### Specifications

|                       |                                       |
|-----------------------|---------------------------------------|
| Contact Rating        | Switching.....25mA,24VDC              |
|                       | Non-Switching.....100mA,50VDC         |
| Contact Resistance    | Initial.....50mΩ/Max                  |
|                       | After Reliability Test.....100mΩ/Max  |
| Insulation Resistance | .....100mΩ/Min. at 500 VDC            |
| Dielectric Strength   | .....500VDC/ 1 mintue                 |
| Operation Force       | .....1,000g/max                       |
| Travel                | .....1.8mm                            |
| Mechancial Life       | ..... <b>5,000 cycles (Min.)</b>      |
| Electrical Life       | ..... <b>2,000 cycles /25mA,24VDC</b> |
| Operation Temperature | .....-40 ~ +85                        |
| Storage Temperature   | .....-40 ~ +85                        |

### Soldering Information

#### Hand Soldering

Soldering iron 30W or under at 350 for 3 sec. max. or at 270 for 5 sec. max.

#### Wave Soldering

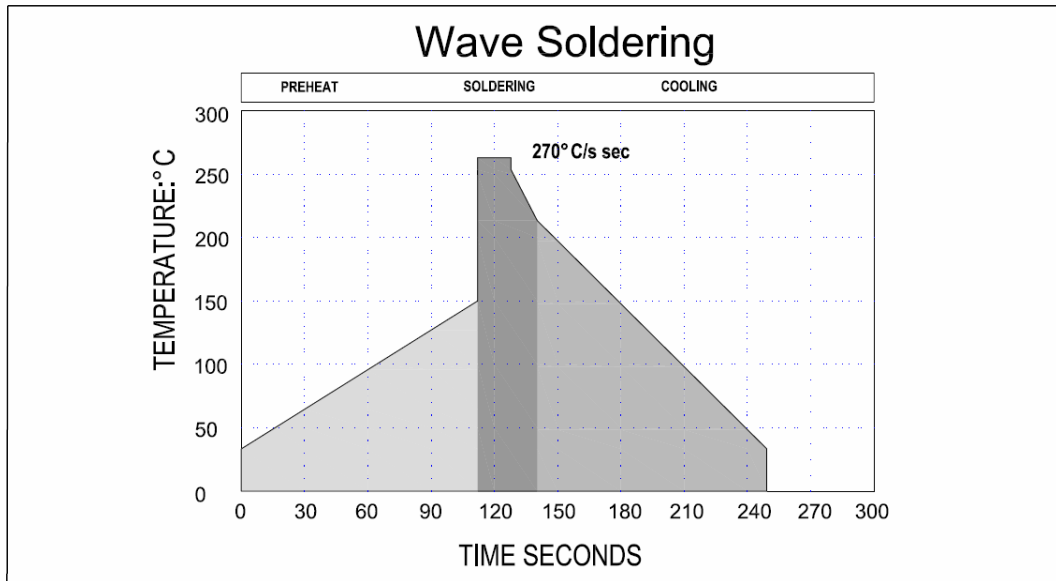
(1) For lead free wave solder simulation of typical components, the solder bath temperature Shall be maintained to 270 / 5~10 seconds.

(2) **THR** - 280 /10seconds

Keep all actuators in "OFF" position during soldering and cleaning process.

|                               |  |        |             |
|-------------------------------|--|--------|-------------|
| <b>MODEL</b>                  | <b>SPECIFICATION</b><br><b>RoHS Compliant DIP SWITCH</b> | SP-002 | <b>Page</b> |
| BA series<br>Right Angle Type |  |        | 2/4         |

### Classification Wave Soldering Profiles



**Maximum dwell time in the solder wave (270 ) shall not exceed 5 seconds.**

#### Switch Operation and Taping

- (1) Use tweezers for operation
- (2) Flux cleaning should be done without removing the Tape.
- (3) If the tape is removed, it adheres less than before when it is placed back on, possibly causing flux inflow
- (4) Ultrasonic cleaning not re-commended without Tape sealed.

All switches must set in OFF position when through Soldering process.

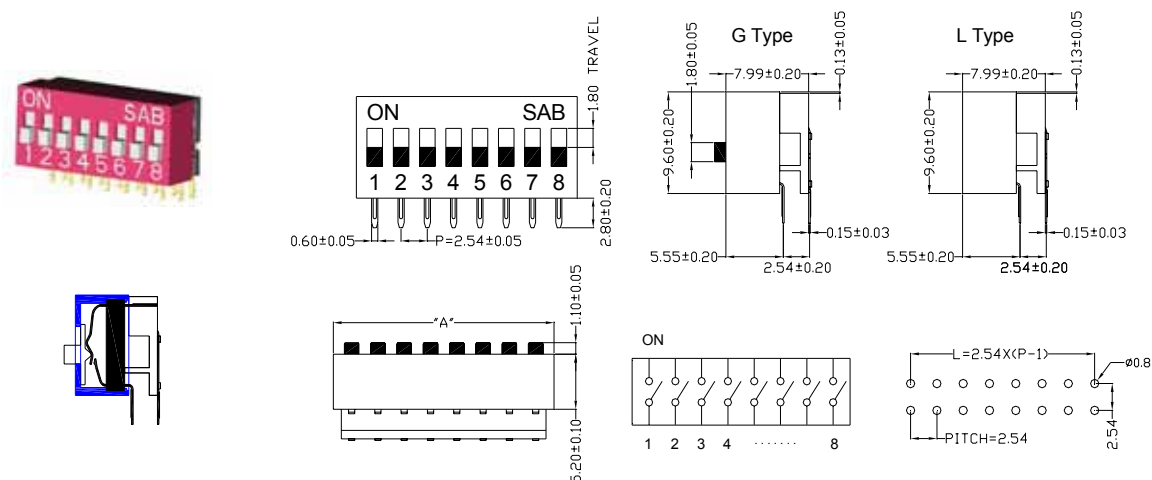
Any flux enters the switch may influence contact function.

|                               |  |        |      |
|-------------------------------|--|--------|------|
| <b>MODEL</b>                  | <b>SPECIFICATION</b><br><b>RoHS Compliant DIP SWITCH</b> | SP-003 | Page |
| BA series<br>Right Angle Type |  |        | 3/4  |

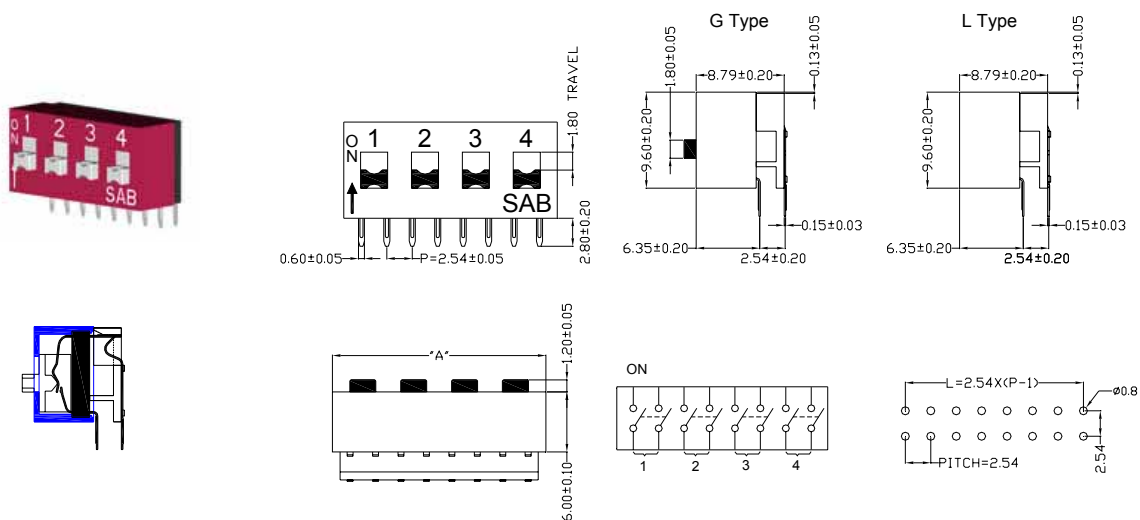
**Materials:**

|          |  |
|----------|--|
| Cover    | .....Thermoplastic (UL 94V-0), Red / Blue        |
|          | .....Thermoplastic (UL 94V-0), Black(THR)        |
| Base     | .....Thermoplastic (UL 94V-0), Black             |
|          | .....Thermoplastic (UL 94V-0), Black(THR)        |
| Actuator | .....Thermoplastic (UL 94V-0), White             |
|          | .....Thermoplastic (UL 94V-0), White(THR)        |
| Support  | .....Thermoplastic (UL 94V-0), Black             |
| Contact  | .....Gold Plated                                 |
| Terminal | .....40u" +/-10u" Nickel Cover (Pure) Tin-Plated |
|          | .....40u" +/-10u" Nickel Cover 1u" Gold-Plated   |
| Tape     | .....Polyester Film                              |

**BA**



**BA2F**



|                               |  |        |      |
|-------------------------------|--|--------|------|
| <b>MODEL</b>                  | <b>SPECIFICATION</b><br><b>RoHS Compliant DIP SWITCH</b> | SP-004 | Page |
| BA series<br>Right Angle Type |  |        | 4/4  |

**Part Number Table:**

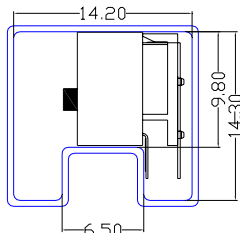
**BA**

**BA2F**

| No. Pos. | Dim. "A" | Raise Actuator Red Standard Tube Package | Flat Actuator Blue Standard Tube Package | Raise Actuator Red 1u" Gold Lead Tube Package |
|----------|----------|--|--|---|
| 2        | 6.08     | BA02GR                                   | BA02LB                                   | BA02G01R                                      |
| 3        | 8.62     | BA03GR                                   | BA03LB                                   | BA03G01R                                      |
| 4        | 11.16    | BA04GR                                   | BA04LB                                   | BA04G01R                                      |
| 5        | 13.70    | BA05GR                                   | BA05LB                                   | BA05G01R                                      |
| 6        | 16.24    | BA06GR                                   | BA06LB                                   | BA06G01R                                      |
| 7        | 18.78    | BA07GR                                   | BA07LB                                   | BA07G01R                                      |
| 8        | 21.32    | BA08GR                                   | BA08LB                                   | BA08G01R                                      |
| 9        | 23.86    | BA09GR                                   | BA09LB                                   | BA09G01R                                      |
| 10       | 26.40    | BA10GR                                   | BA10LB                                   | BA10G01R                                      |
| 12       | 31.48    | BA12GR                                   | BA12LB                                   | BA12G01R                                      |

| No. Pos. | Dim. "A" | Raise Actuator Red Tube Package |
|----------|----------|---------------------------------|
| 1        | 6.08     | BA2F01GR                        |
| 2        | 11.16    | BA2F02GR                        |
| 3        | 16.24    | BA2F03GR                        |
| 4        | 21.32    | BA2F04GR                        |
| 5        | 26.40    | BA2F05GR                        |
| 6        | 31.48    | BA2F06GR                        |

**Tube Package**



| POLE  | 2     | 4    | 6    | 8    | 10   | 12   |
|-------|-------|------|------|------|------|------|
| TUBE  | 85    | 47   | 32   | 24   | 20   | 16   |
| BOX   | 4165  | 2303 | 1568 | 1176 | 980  | 784  |
| CTN 1 | 8330  | 4606 | 3136 | 2352 | 1960 | 1568 |
| CTN 2 | 16660 | 9212 | 6272 | 4704 | 3920 | 3136 |

**Box Dimension:**

Tube .....57.0cm × 13.0cm × 12.5cm

**Carton Dimension:**

Tube  
 2 Boxes.....58.5cm x 29.0cm x 15.0cm  
 4 Boxes.....58.5cm x 28.0cm x 27.0cm