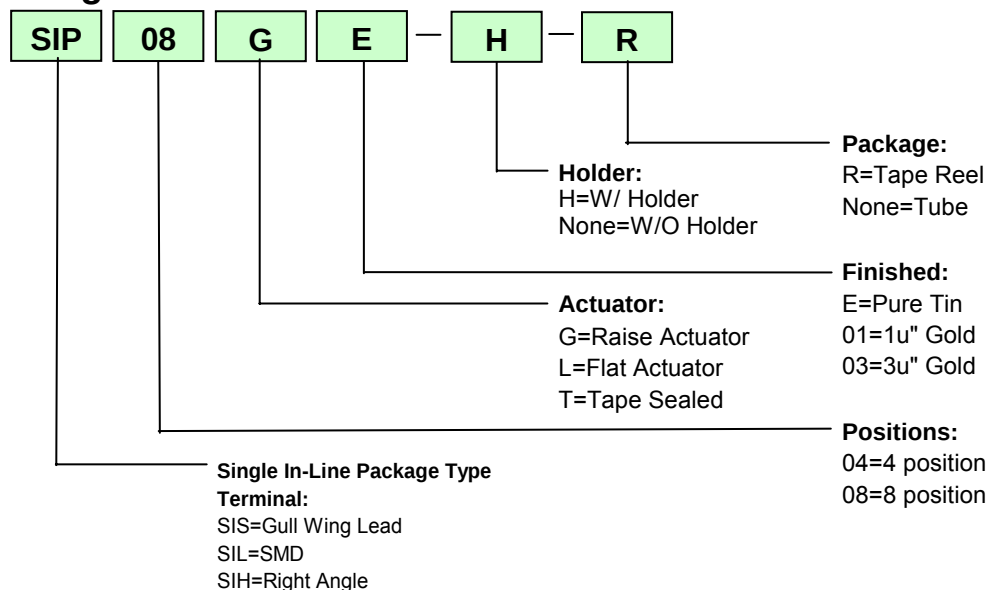


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-001	Page
SIP series Single In-Line Package			1/7

Ordering Information:



Specifications

◆ Contact Rating	Switching..... 25mA, 24VDC
	Non-Switching.....100mA, 50VDC
◆ Contact Resistance	Initial.....50mΩ Max.
	After Life Test.....100mΩ Max.
◆ Insulation Resistance	100MΩ Min. at 500VDC
◆ Dielectric Strength	500VDC / 1 minute
◆ Operation Force	1,000g max
◆ Travel :	0.9mm
◆ Mechanical Life	 3,000 cycles (Min.)
◆ Electrical Life	 3,000 cycles(Min.) 100mA,50VDC
◆ Operation Temperature	-40°C ~ +85°C
◆ Storage Temperature	-40°C ~ +85°C

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-002	Page
SIP series Single In-Line Package			2/7

Soldering Information

◆ Hand Soldering

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

◆ Reflow Soldering

(1) Gold-plated series available 2~3 times process

(2) Tin-plated series available 1 time process

(3) 260 ± 5 within 60 sec for reflow. In-line or Batch system. Apply reflow soldering only.

(4) Vapor Phase Heating (VPH) switch must with Tape sealed type

◆ Wave Soldering

For lead free wave solder simulation of typical components, the solder bath temperature Shall be maintained to 275 .

The hold time in the solder shall be 10 +2/-0 seconds.

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

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Classification Reflow Profiles

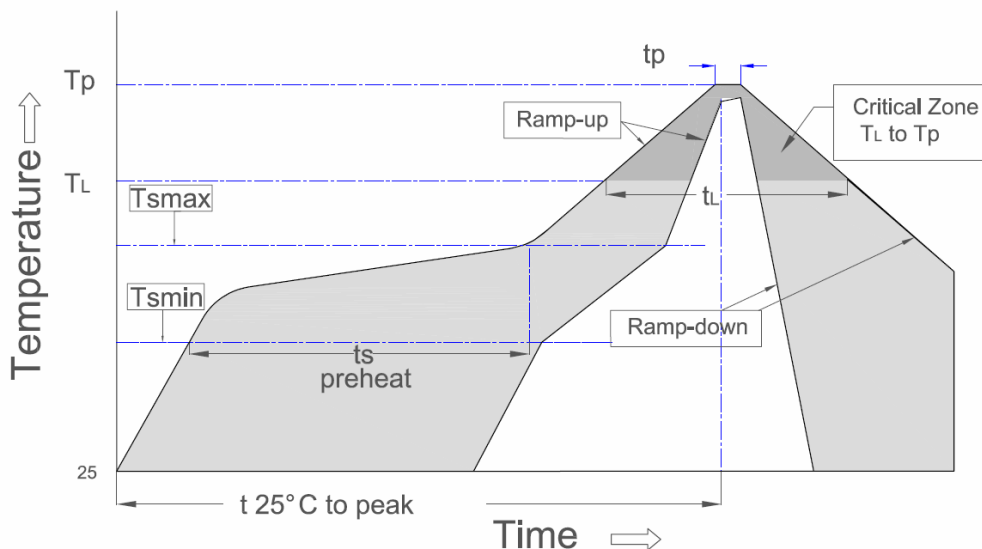
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T_{smax} to T_p)	3 /second max
Preheat: --Temperature Min (T_{smin}) --Temperature Max (T_{smax}) --Time (T_{smin} to T_{smax}) (t_s)	150 200 60 ~ 180 seconds
Time maintained above: --Temperature (T_L) --Time (t_L)	217 60 ~ 150 seconds
Peak/Classification Temperature(T_p)	260 ±5
Time within 5 °C of actual peak Temperature (t_p)	20~40 seconds
Ramp-Down Rate	6 /second max
Time 25 °C to Peak Temperature	8 minutes max

Note 1: All temperatures refer to topside of the package, measured on the package body surface.

Note 2: Time within 5 °C of actual peak temperature (t_p) specified for the reflow profiles is a “supplier” minimum and “user” maximum.

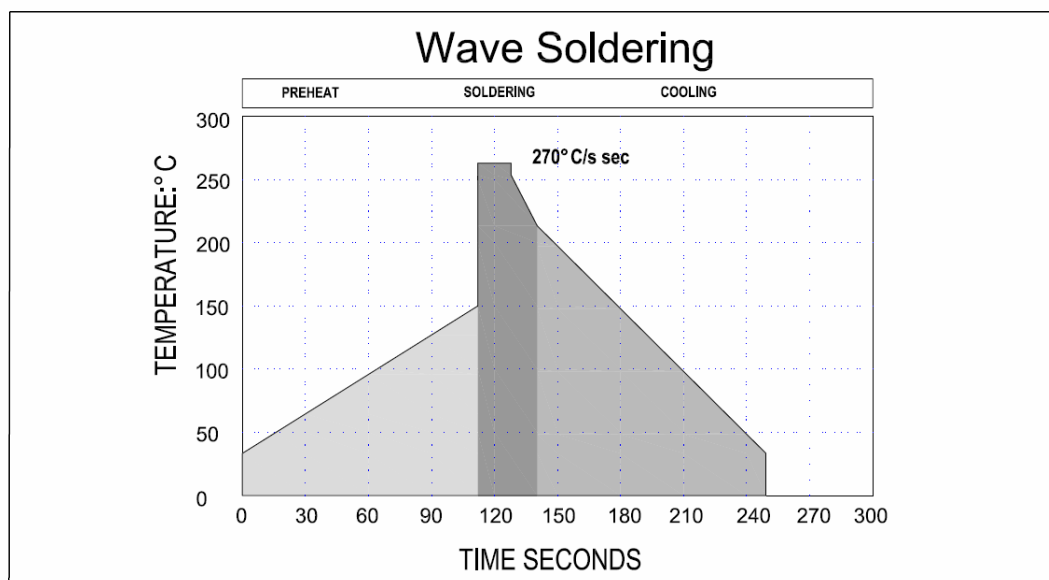
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Reflow Soldering Standard Conditions



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-004	Page
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Classification Wave Soldering Profiles



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

Switch Operation and Taping

- (1) Use tweezers or ball-point pen 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) Do Not Remove Tape sealed before Reflow processing
- (5) Ultrasonic cleaning not re-commended.

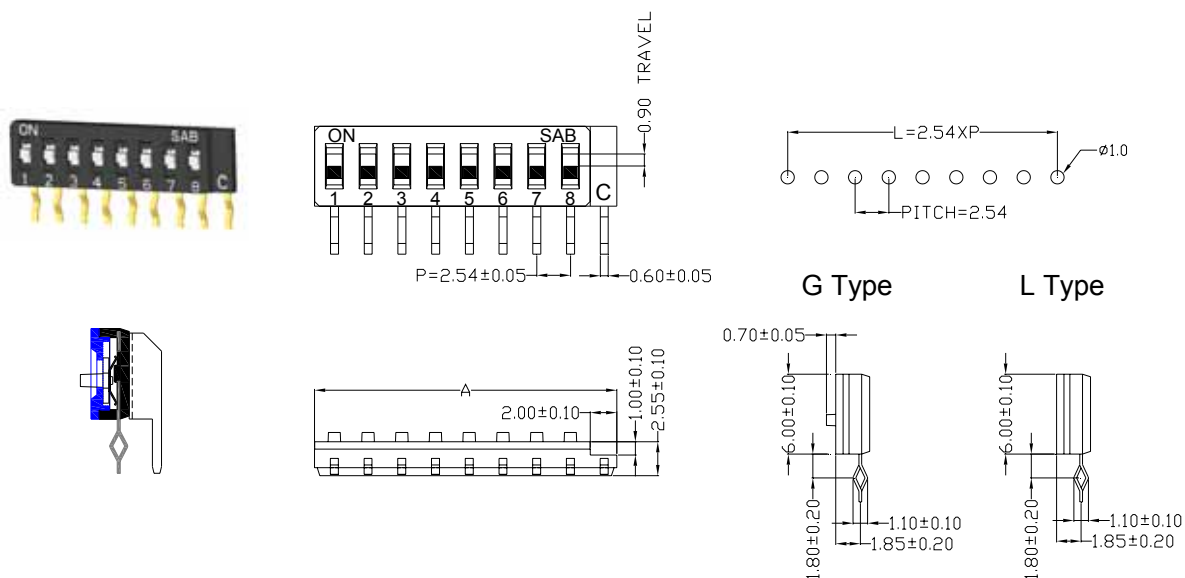
- ✗ All switch must set in OFF position when through Soldering process .
- ✗ Any flux enters the switch may influence contact function .

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SIP series Single In-Line Package			5/7

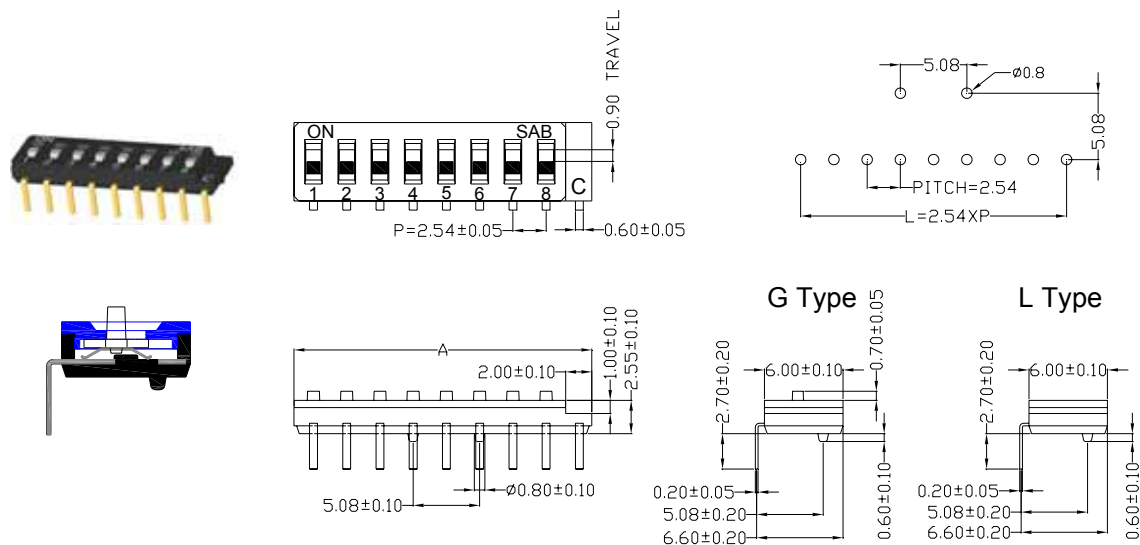
Materials:

◆ Cover		PPS (UL 94V-0), Black
◆ Base		PPS (UL 94V-0), Black
◆ Actuator	SIS/SIL.....	PA46 (UL 94V-0), White
	SIP/SIH.....	PA66 (UL 94V-0), White
◆ Terminal Contact		Gold plated / Pure-Tin Plated
◆ Movable Contact		Gold plated / Pure-Tin Plated
◆ Terminal		Gold plated / Pure-Tin Plated
◆ Tape		Polyimide Film

SIP

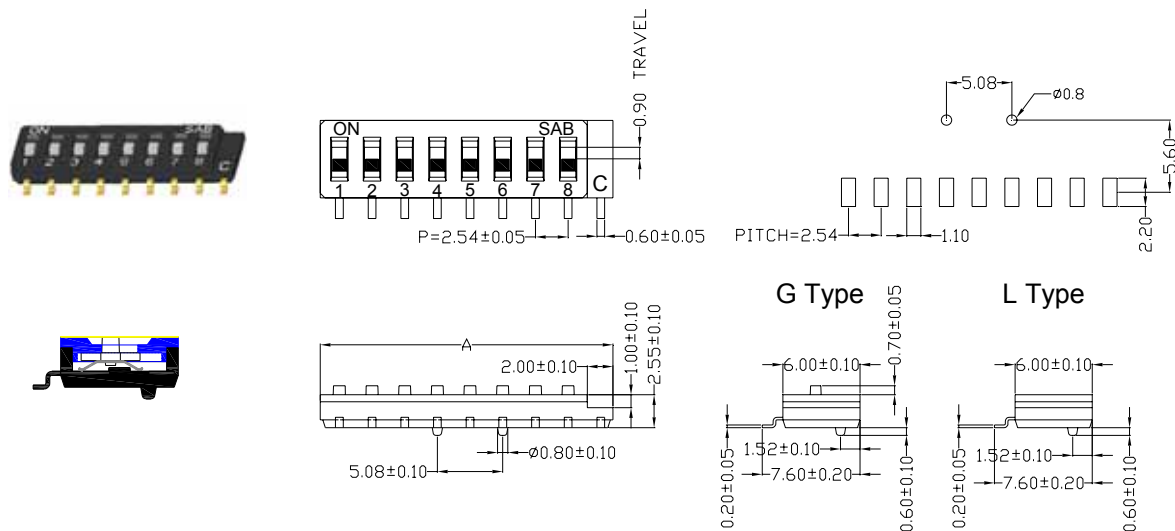


SIH

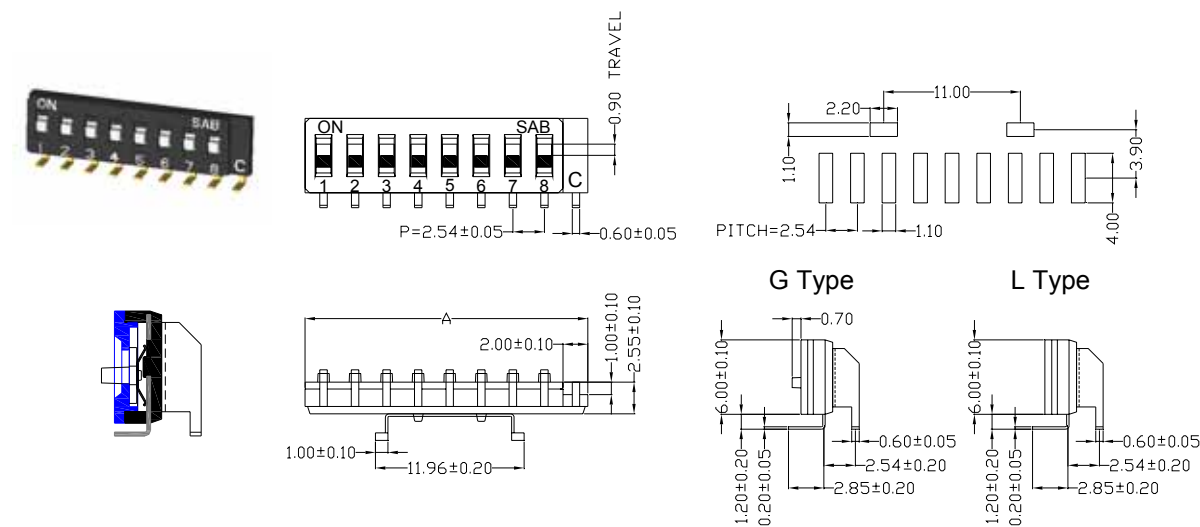


MODEL SIP series Single In-Line Package	SPECIFICATION RoHS Compliant DIP SWITCH	SP-006	Page 6/7

SIS



SIL



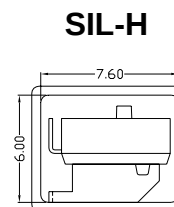
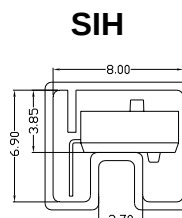
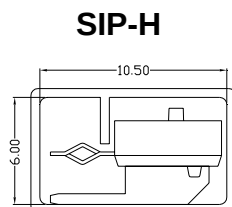
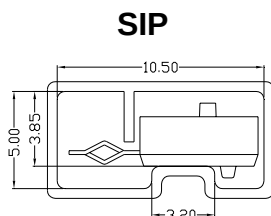
MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-007	Page
SIP series Single In-Line Package			7/7

Part Number Table

No. Pos.	Dim. "A"	Single In Line Pure-Tin Lead Raise Actuator Tube Package W/ Holder	Gull Wing Lead 1u" Gold Lead Flat Actuator Tube Package W/O Holder	SMD 1u" Gold Lead Tape Sealed Tape Reel W/O Holder	Right Angle 3u" Gold Lead Raise Actuator Tube Package W/ Holder
2	7.52	SIP02GE-H	SIS02L01	SIL02T01-R	SIH02G-H
4	12.60	SIP04GE-H	SIS04L01	SIL04T01-R	SIH04G-H
6	17.68	SIP06GE-H	SIS06L01	SIL06T01-R	SIH06G-H
8	22.76	SIP08GE-H	SIS08L01	SIL08T01-R	SIH08G-H
10	27.84	SIP10GE-H	SIS10L01	SIL10T01-R	SIH10G-H
12	32.92	SIP12GE-H	SIS12L01	SIL12T01-R	SIH12G-H

Tube Package:

POLE	2	4	6	8	10	12
TUBE	69	41	29	23	8	16
BOX	13800	8200	5800	4600	1600	3200
CTN 1	27600	16400	11600	9200	3200	6400



Box Dimension:

- ◆ Tube56cm × 12cm × 12cm
- ◆ Tape & Reel34cm x 12cm x 33cm

Carton Dimension:

- ◆ Tube CTN 1 / 2 Boxes.....58.5cm x 26.5cm x 16cm
CTN 2 / 4 Boxes.....58.5cm x 26.5cm x 24cm
- ◆ Tape & Reel34cm x 26cm x 35cm