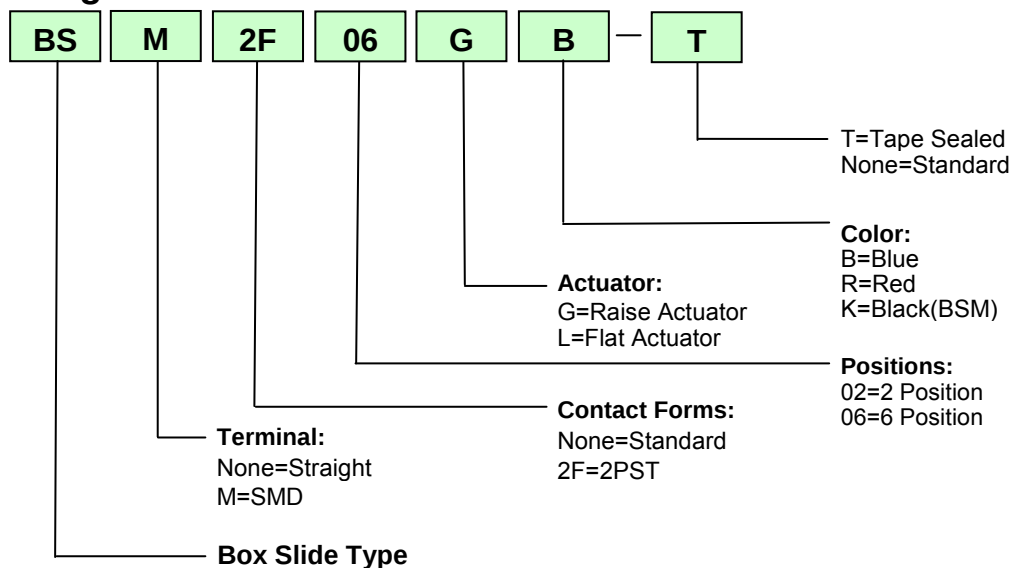


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-001	Page
BS series			
Box Slide Type			1/8

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 :	1.8mm
◆ Mechanical Life	 3,000 cycles (Min.)
◆ Electrical Life	 3,000cycles(Min.) 100mA,50VDC
◆ Operation Temperature	-40°C ~ +85°C
◆ Storage Temperature	-40°C ~ +85°C

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-002	Page
BS series			
Box Slide Type			2/8

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.

Classification Reflow Profiles

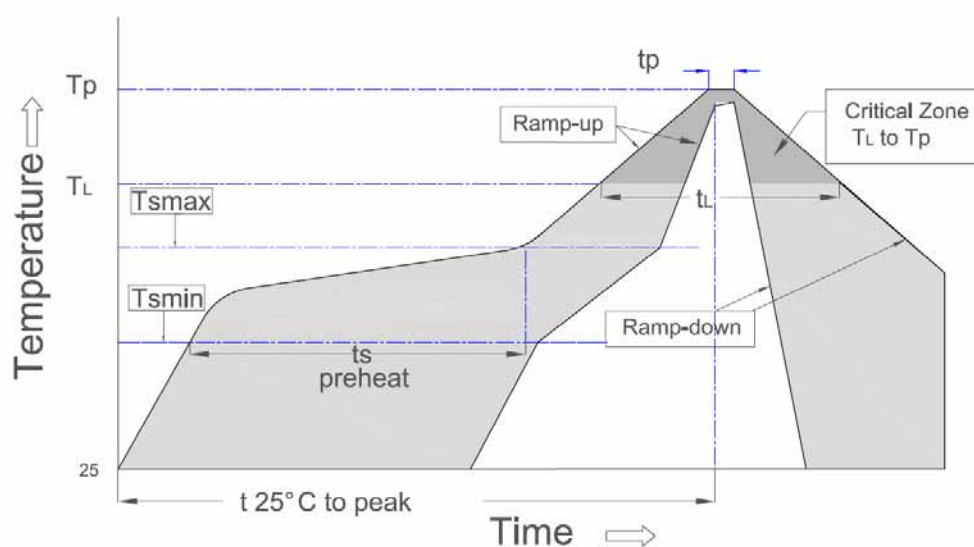
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _p)	3 /second max
Preheat: --Temperature Min (T _{smin}) --Temperature Max (T _{smax}) --Time (T _{smin} to T _{smax}) (ts)	150 200 60 ~ 180 seconds
Time maintained above: --Temperature (T _L) --Time (t _L)	217 60 ~ 150 seconds
Peak/Classification Temperature(T _p)	260 ±5
Time within 5 °C of actual peak Temperature (tp)	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 (tp) specified for the reflow profiles is a “supplier” minimum and “user” maximum.

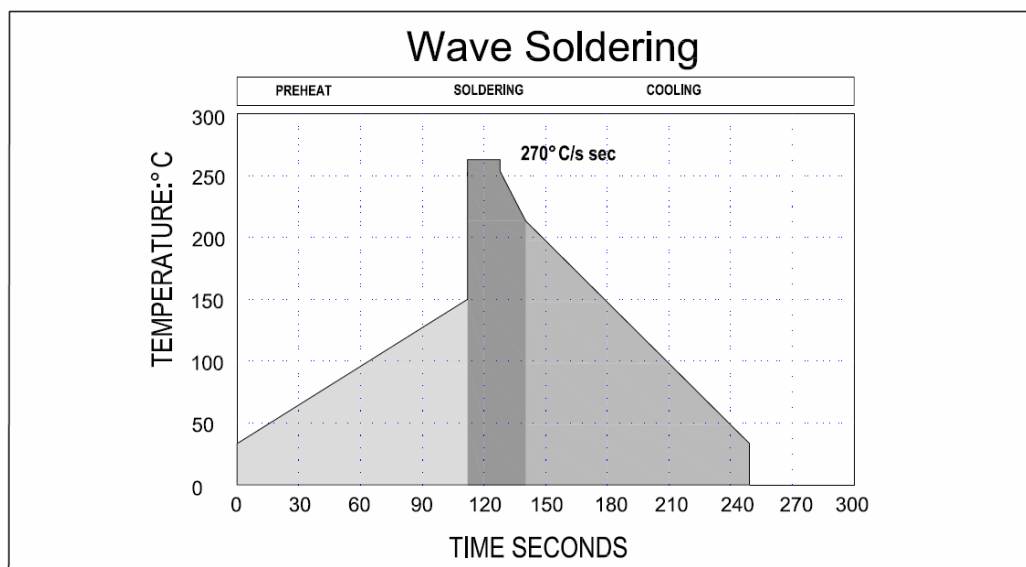
The table copy from IPC/JEDEC J-STD-202C

Reflow Soldering Standard Conditions



MODEL BS series Box Slide Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-004	Page
			4/8

Classification Wave Soldering Profiles



Maximum dwell time in the solder wave (270) 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.

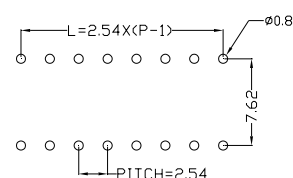
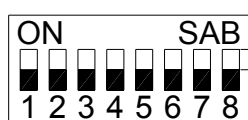
- ※ All switch must set in OFF position when through Soldering process .
- ※ Any flux enters the switch may influence contact function .

MODEL	SPECIFICATION	SP-005	Page
BS series Box Slide Type			5/8

Materials:

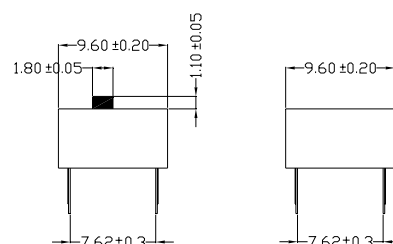
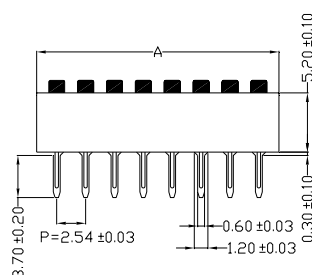
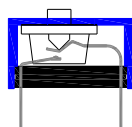
◆ Cover	BS/BS2F.....PBT (UL 94V-0), Blue / Red
	BSM.....PPS (UL 94V-0), Black
◆ Base	BS/BS2F.....PA66 (UL 94V-0), Black
	BSM.....PA6T (UL 94V-0), Black
◆ Actuator	BS/BS2F.....PA66 (UL 94V-0), White
	BSM.....PA46 (UL 94V-0), White
◆ Contact	Gold plated
◆ Terminal	Pure-Tin Plated
◆ Tape	Polyester Film

BS

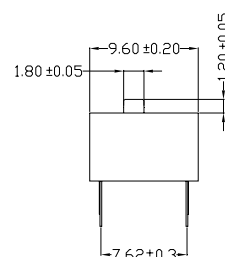
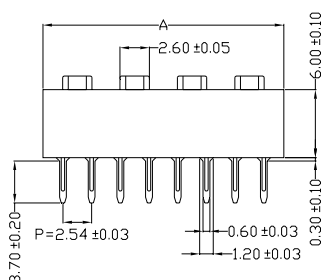
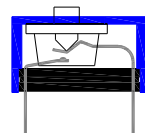
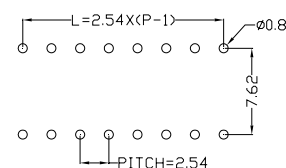
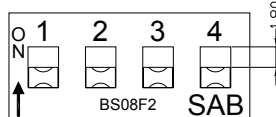


G Type

L Type

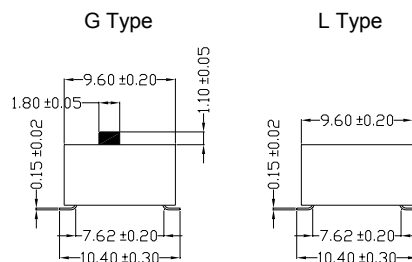
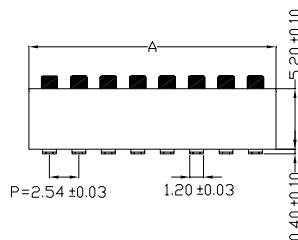
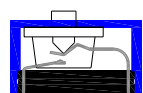
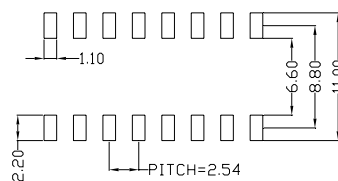
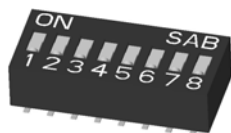


BS2F

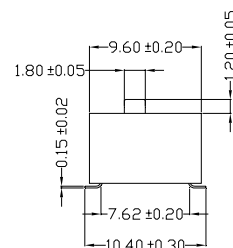
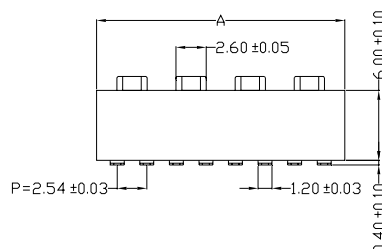
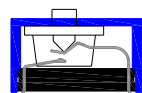
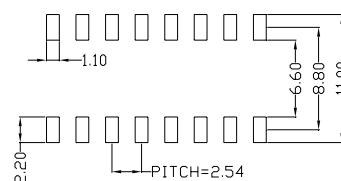
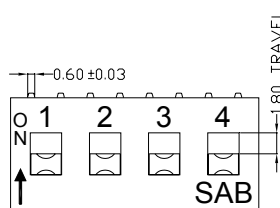


MODEL BS series Box Slide Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-006	Page 6/8

BSM



BSM2F



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-007	Page
BS series			
Box Slide Type			7/8

Part Number Table:

BS/BSM

No. Pos.	Dim. "A"	Through Hole Raise Actuator Blue Tube Package	SMD Raise Actuator Black Tube Package
1	3.54	BS01G-B	BSM01G-K
2	6.08	BS02G-B	BSM02G-K
3	8.62	BS03G-B	BSM03G-K
4	11.16	BS04G-B	BSM04G-K
5	13.70	BS05G-B	BSM05G-K
6	16.24	BS06G-B	BSM06G-K
7	18.78	BS07G-B	BSM07G-K
8	21.32	BS08G-B	BSM08G-K
9	23.86	BS09G-B	BSM09G-K
10	26.40	BS10G-B	BSM10G-K
12	31.48	BS12G-B	BSM12G-K

BS2F/BSM2F

No. Pos.	Dim. "A"	Through Hole Raise Actuator Red Tube Package	SMD Raise Actuator Black Tube Package
1	6.08	BS2F01G-R	BSM2F01G-K
2	11.16	BS2F02G-R	BSM2F02G-K
3	16.24	BS2F03G-R	BSM2F03G-K
4	21.32	BS2F04G-R	BSM2F04G-K
5	26.40	BS2F05G-R	BSM2F05G-K
6	31.48	BS2F06G-R	BSM2F06G-K

Tube Package:

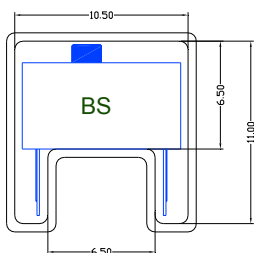
◆ BS/BSM

POLE	1	2	3	4	5	6	7	8	9	10	12
TUBE	144	85	61	47	38	32	28	24	22	20	16
BOX	11520	6800	4880	3760	3040	2560	2240	1920	1760	1600	1280
CTN 1	23040	13600	9760	7520	6080	5120	4480	3840	3520	3200	2560
CTN 2	46080	27200	19520	15040	12160	10240	8960	7680	7040	6400	5120

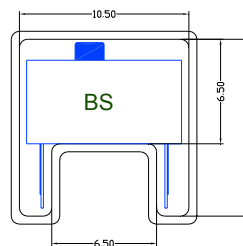
◆ BS2F/BSM2F

POLE	1	2	3	4	5	6
TUBE	85	47	32	24	20	16
BOX	6800	3760	2560	1920	1600	1280
CTN 1	13600	7520	5120	3840	3200	2560
CTN 2	27200	15040	10240	7680	6400	5120

BS/BSM



BS2F/BSM2F



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-008	Page
BS series			
Box Slide Type			8/8

Box Dimension:

◆ Tube56cm × 12cm × 12cm

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