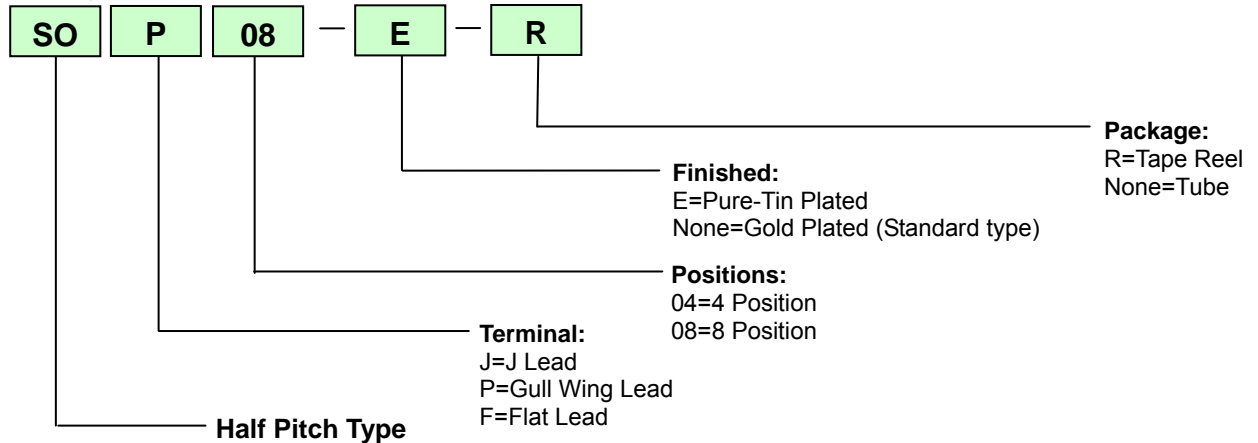


Ordering Information:



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	.....	300VAC / 1 minute
◆ Operation Force	.....	500g Max
◆ Travel :	.....	0.7mm
◆ Mechanical Life	.....	2,000 cycles (Min.)
◆ Electrical Life	.....	1,000 cycles / 25mA, 24VDC
◆ Operation Temperature	.....	-40°C ~ +85°C
◆ Storage Temperature	.....	-40°C ~ +85°C

Soldering Information

- ◆ **Hand Soldering**
Soldering iron 30W or under at 270°C for 2 sec max.
- ◆ **Reflow Soldering**
 - (1) Gold-plated series available 2~3 times process
 - (2) Tin-plated series available 1 time process
 - (3) Vapor Phase Heating (VPH) switch must with Tape sealed type
- ◆ Keep all actuators in "OFF" position during soldering and cleaning process.

Classification Reflow Profiles

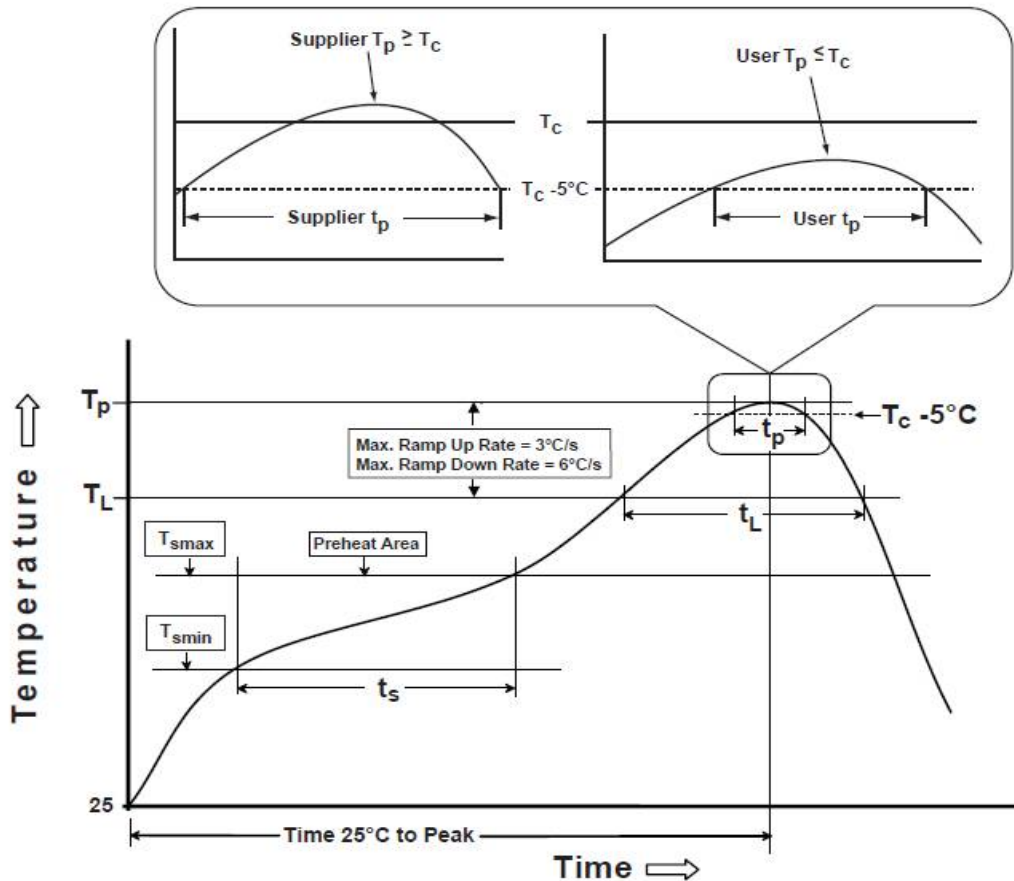
Profile Feature	Pb-Free Assembly
Preheat / Soak	
Temperature Min (T_{smin})	150°C
Temperature Max (T_{smax})	200°C
Time(ts) from (T_{smin} to T_{smax})	60 ~120 seconds
Ramp-up Rate (T_L to T_p)	3°C/second max
Liquidous temperature (T_L)	217°C
Time (t_L) maintained above to T_L	60 ~ 150 seconds
Peak package body temperature (T_p)	For users T_p must not exceed the Classification temp:260°C (Package Thickness:1.6~2.5mm) For suppliers T_p must equal or exceed the Classification temp:260°C (Package Thickness:1.6~2.5mm)
Time (t_p) within 5°C of specified classification Temperature (T_c)	30 seconds
Ramp-Down Rate (T_p to T_L)	6°C/second max
Time 25°C to Peak Temperature	8 minutes max
*Tolerance for peak profile temperature(T_p) is defined as a supplier minimum and a user maximum	

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.

The table copy from IPC/JEDEC J-STD-020 D.1

Reflow Soldering Standard Conditions



Switch Operation and Taping

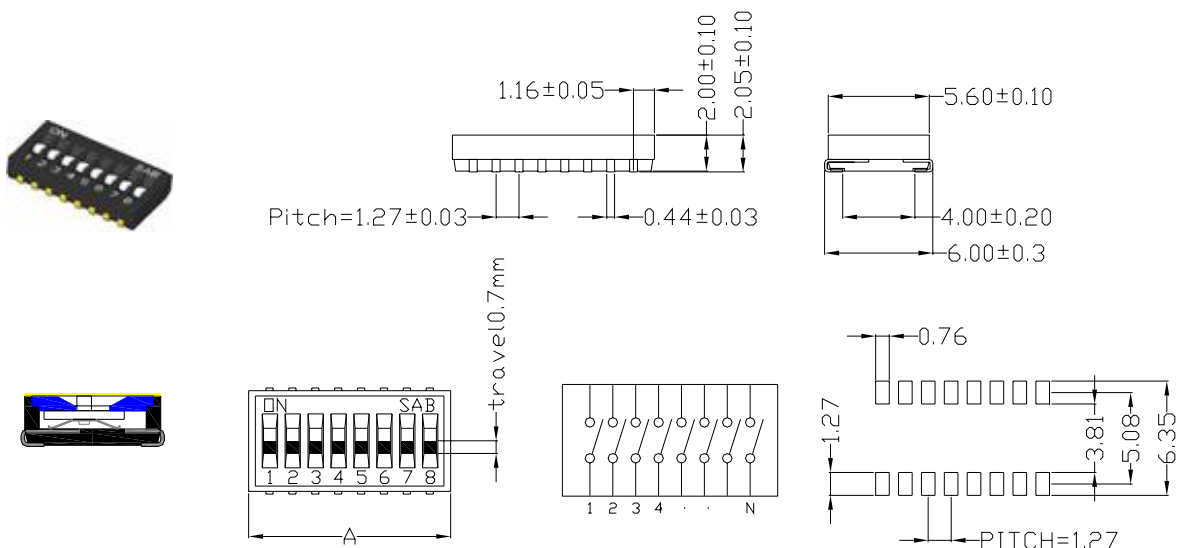
- (1) Use tweezers or ball-point pen for operation.
- (2) Flux cleaning should be done without removing the Tape.
- (3) If the tape is removed, it adheres less than before when it is placed back on, possibly causing flux inflow
- (4) Do Not Remove Tape sealed before Reflow processing
Ultrasonic cleaning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

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

Materials:

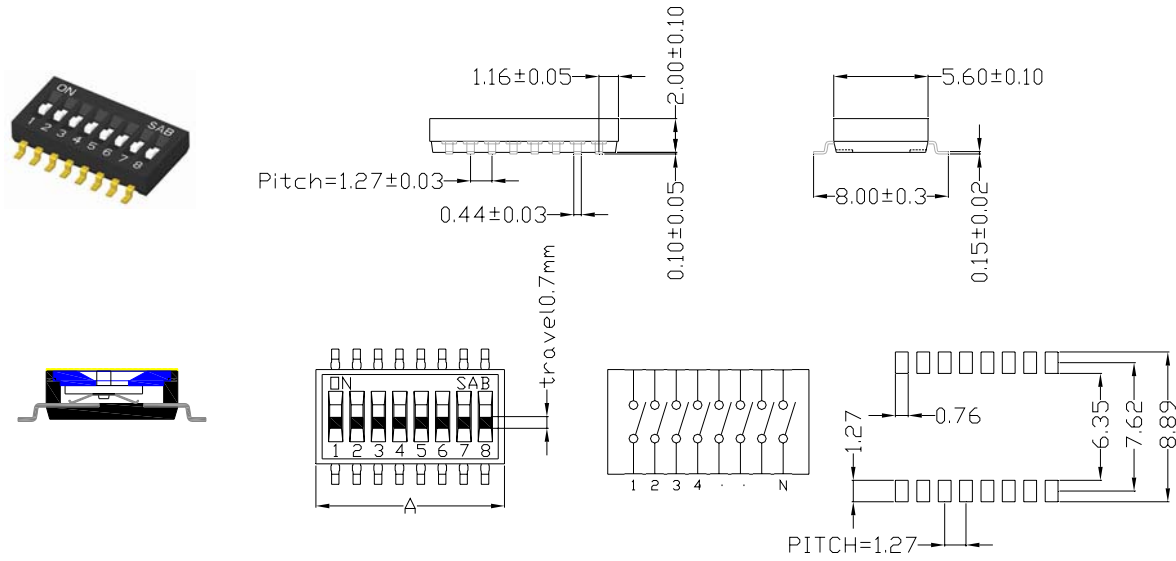
◆	Cover	PPS (UL 94V-0), Black
◆	Base	PPS (UL 94V-0), Black
◆	Actuator	PA46 (UL 94V-0), White
◆	Terminal Contact	Gold Plated / Pure-Tin Plated
◆	Movable Contact	Gold Plated / Pure-Tin Plated
◆	Terminal	40u" +/-10u" Nickel Cover (Pure) Tin-Plated
		40u" +/-10u" Nickel Cover Gold-Plated
◆	Tape	Polyimide Film

SOJ

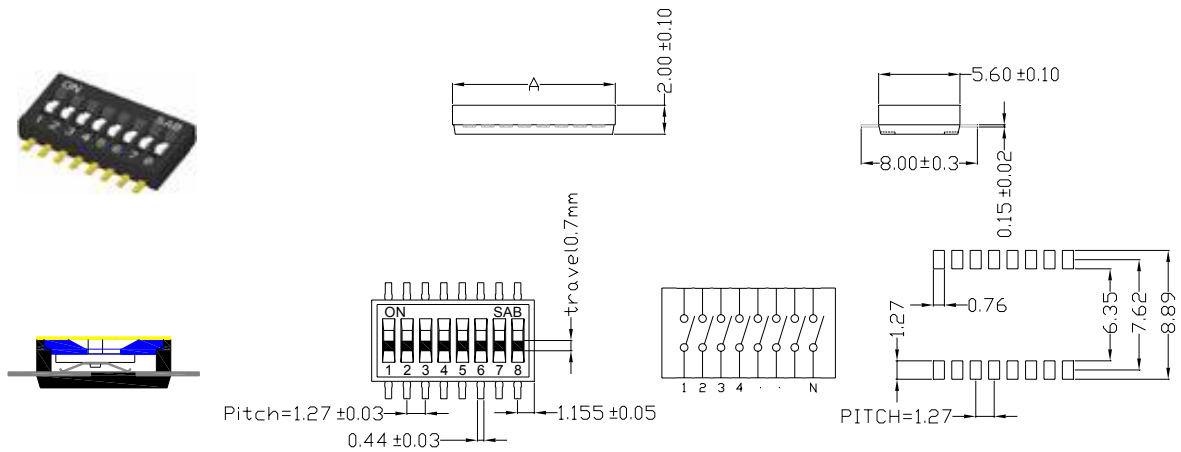


MODEL SO series Half Pitch Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-004	Page 4/8
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SOP



SOF



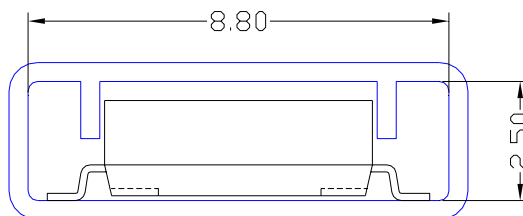
Part Number Table

No. Pos.	Dim. "A"	SMD Gold Plated Tape Sealed Tube Package	J Lead Tin Plated Tape Sealed Tape Reel	Flat Lead Gold Lead Tape Sealed Tape Reel
1	2.31	SOP01	SOJ01E-R	SOF01-R
2	3.58	SOP02	SOJ02E-R	SOF02-R
3	4.85	SOP03	SOJ03E-R	SOF03-R
4	6.12	SOP04	SOJ04E-R	SOF04-R
5	7.39	SOP05	SOJ05E-R	SOF05-R
6	8.66	SOP06	SOJ06E-R	SOF06-R
8	11.20	SOP08	SOJ08E-R	SOF08-R
10	13.74	SOP10	SOJ10E-R	SOF10-R
12	16.28	SOP12	SOJ12E-R	SOF12-R

Tube Package:

POLE	1	2	3	4	5	6	8	10	12
TUBE	93(half)	125	90	70	60	50	40	30	25
BOX	18600	25000	18000	14000	12000	10000	8000	6000	5000
CTN 1	37200	50000	36000	28000	24000	20000	16000	12000	10000

SOP

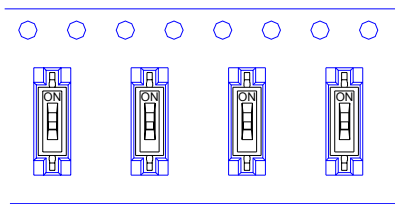


Tape & Reel package

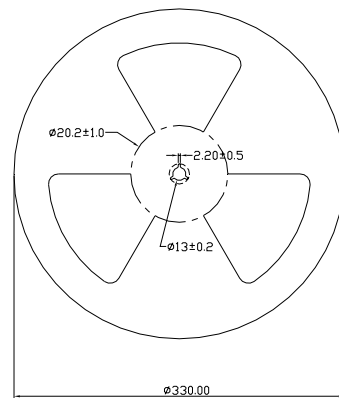
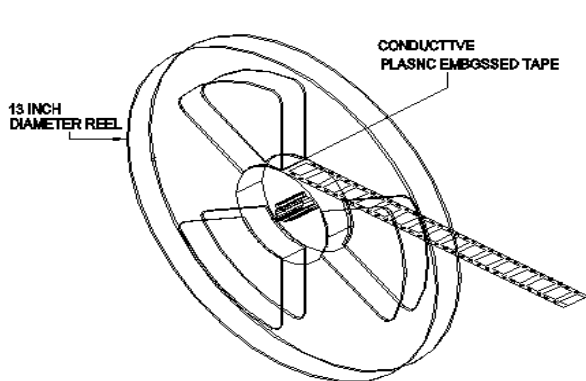
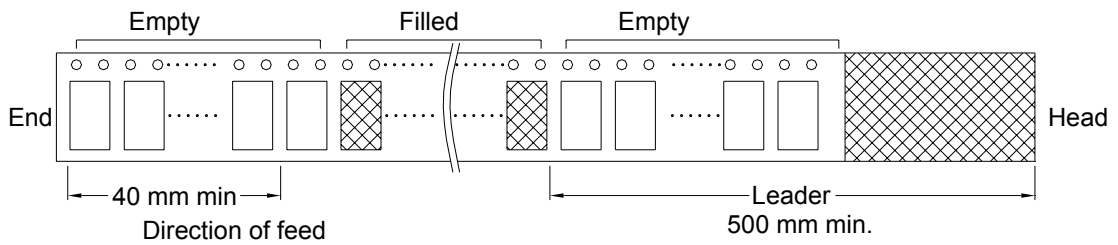
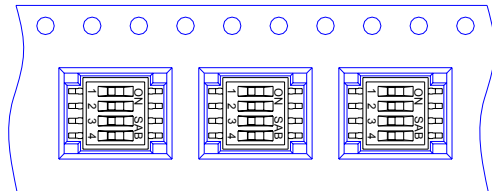
◆ SOP/SOJ/SOF

POLE	01	02	03	04	05	06	08	10	12
Pitch (mm)	8	8	8	12	12	12	12	12	12
Width (mm)	16	16	16	16	16	16	24	24	24
per Reel	3000	3000	3000	2000	2000	2000	2000	2000	2000

SOP/SOJ01~03



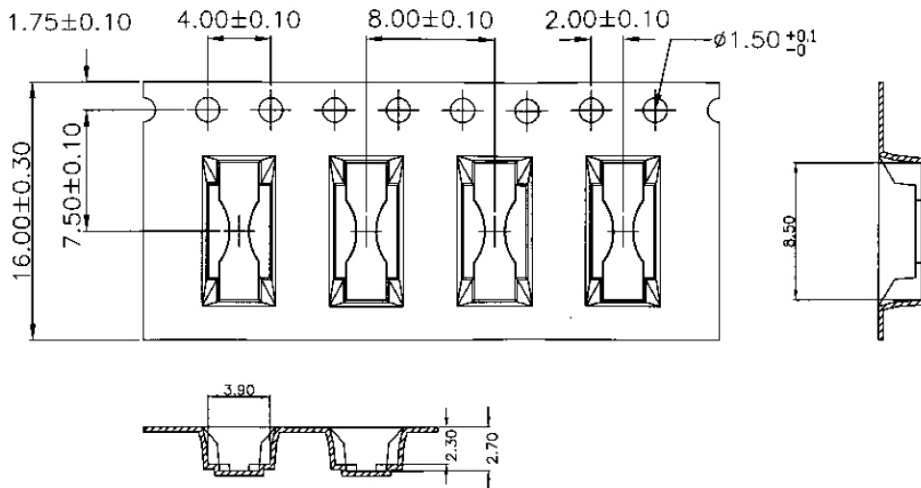
SOP04~SOP12



Carry Tape Table:

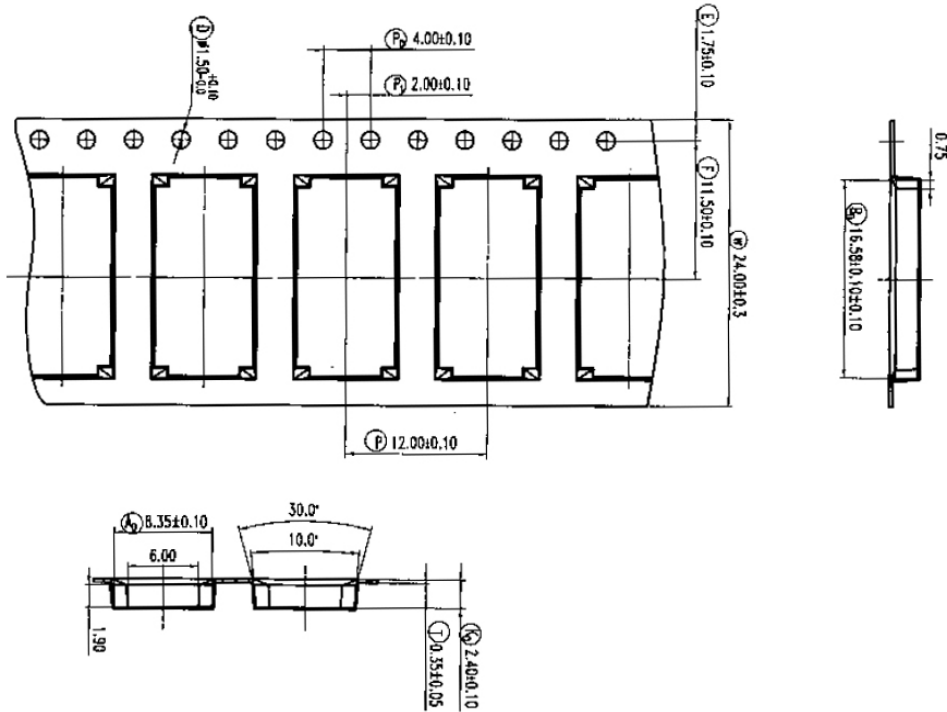
P/N.	Pitch(mm)	Thickness(mm)	Width(mm)	Sellotape(mm)	@Reel/BOX	Q'ty/Reel
SOP/J01	8	0.3	16	13.3	6	3000
SOP/J02	8	0.3	16	13.3		3000
SOP/J03	8	0.3	16	13.3		3000
SOP/J04	12	0.3	16	13.3		2000
SOP/J05	12	0.3	16	13.3		2000
SOP/J06	12	0.3	16	13.3		2000
SOP/J08	12	0.3	24	21.3	4	2000
SOP/J10	12	0.3	24	21.3		2000
SOP/J12	12	0.3	24	21.3		2000

16mm



MODEL	SPECIFICATION	SP-008	Page
SO series Half Pitch Type			RoHS Compliant DIP SWITCH	8/8

24mm



Bo)

- ◆ 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