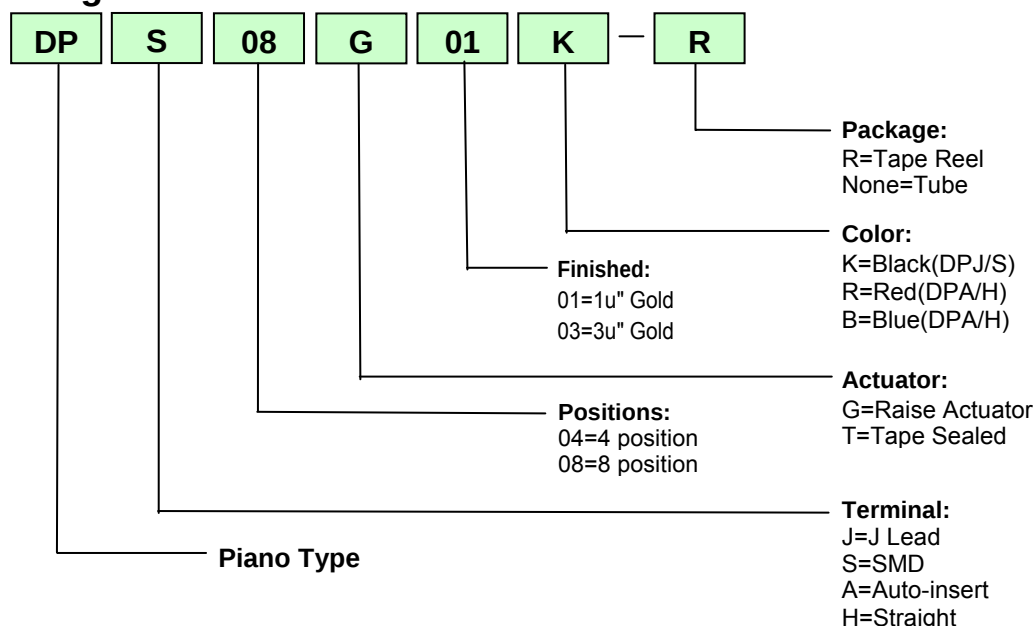


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-001	Page
DP series Piano Type			1/10

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
◆ Mechanical Life	 2,000 cycles (Min.)
◆ Electrical Life	 2,000 cycles(Min.) \100Ma,50VDC
◆ Operation Temperature	-40°C ~ +85°C
◆ Storage Temperature	-40°C ~ +85°C

MODEL	SPECIFICATION	SP-002	Page
DP series			2/10
Piano Type			
RoHS Compliant DIP SWITCH			

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

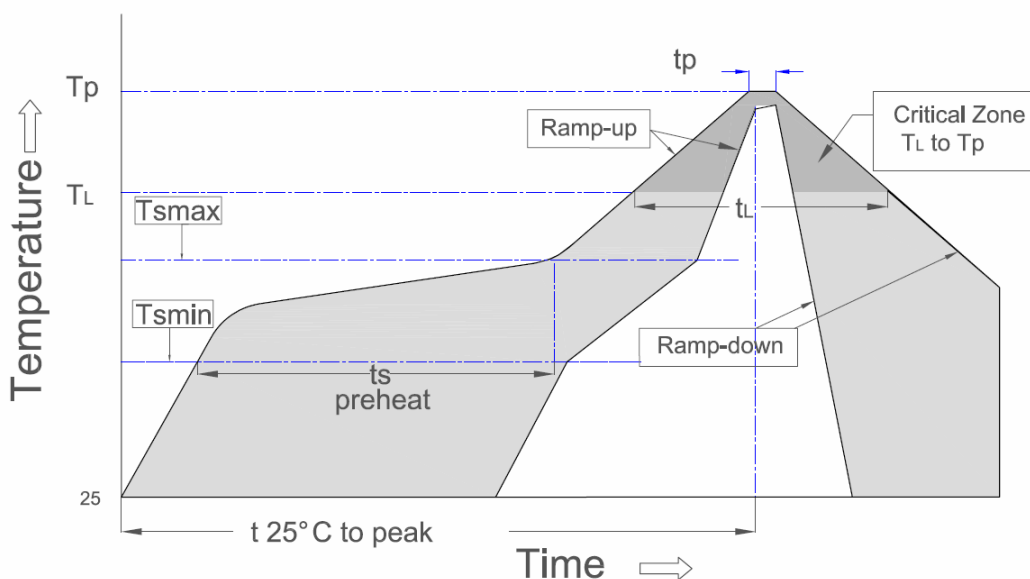
Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T _{smax} to T _p)	3 /second max
Preheat: --Temperature Min (T _{smin}) --Temperature Max (T _{smax}) --Time (T _{smin} to T _{smax}) (ts)	150 200 60 ~ 180 seconds
Time maintained above: --Temperature (T _L) --Time (t _L)	217 60 ~ 150 seconds
Peak/Classification 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.

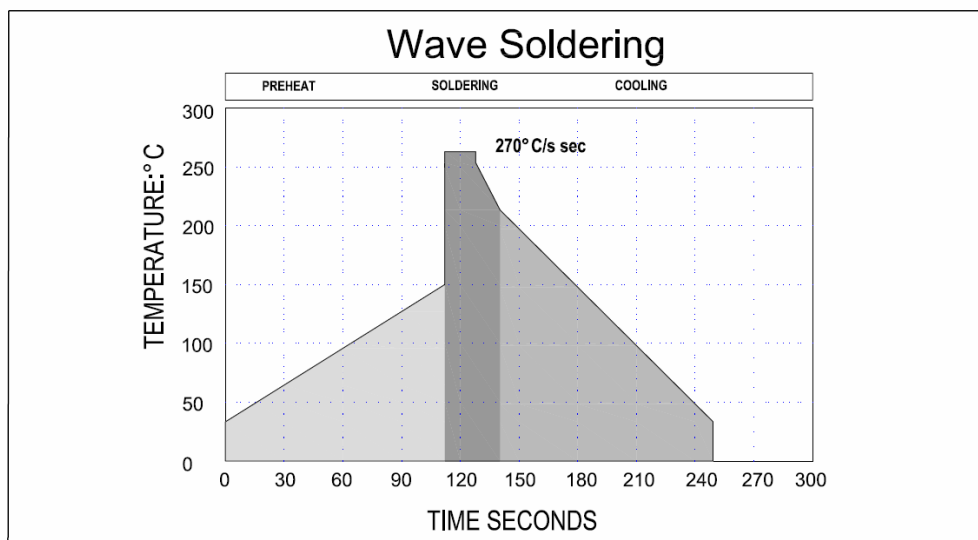
The table copy from IPC/JEDEC J-STD-202C

Reflow Soldering Standard Conditions



MODEL	SPECIFICATION	SP-004	Page
DP series			4/10
Piano Type			
RoHS Compliant DIP SWITCH			

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) Do Not Remove Tape sealed before Reflow processing
- (5) Ultrasonic cleaning not re-commended.

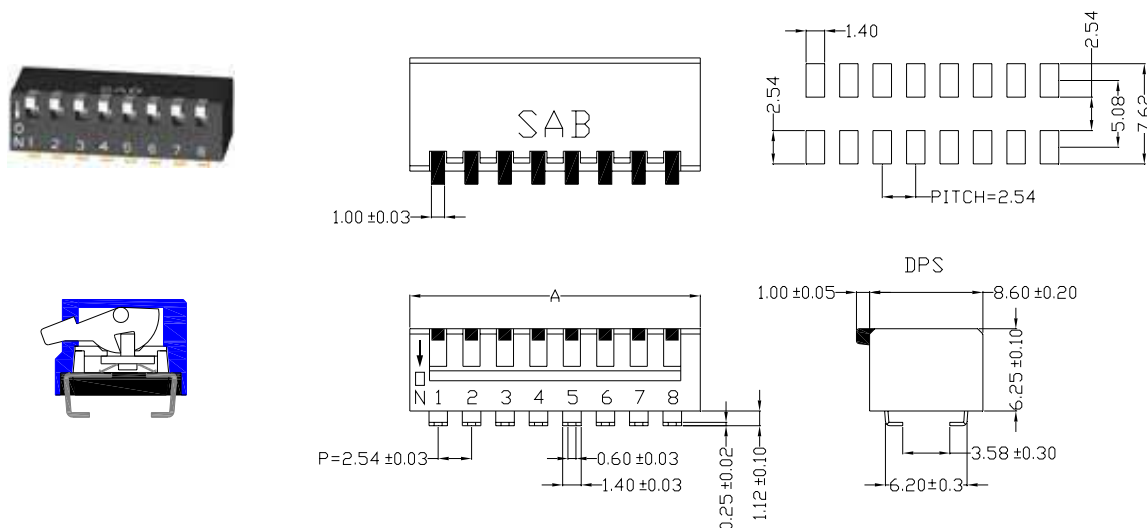
- ※ All switch must set in OFF position when through Soldering process .
- ※ Any flux enters the switch may influence contact function .

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-005	Page
DP series			
Piano Type			5/10

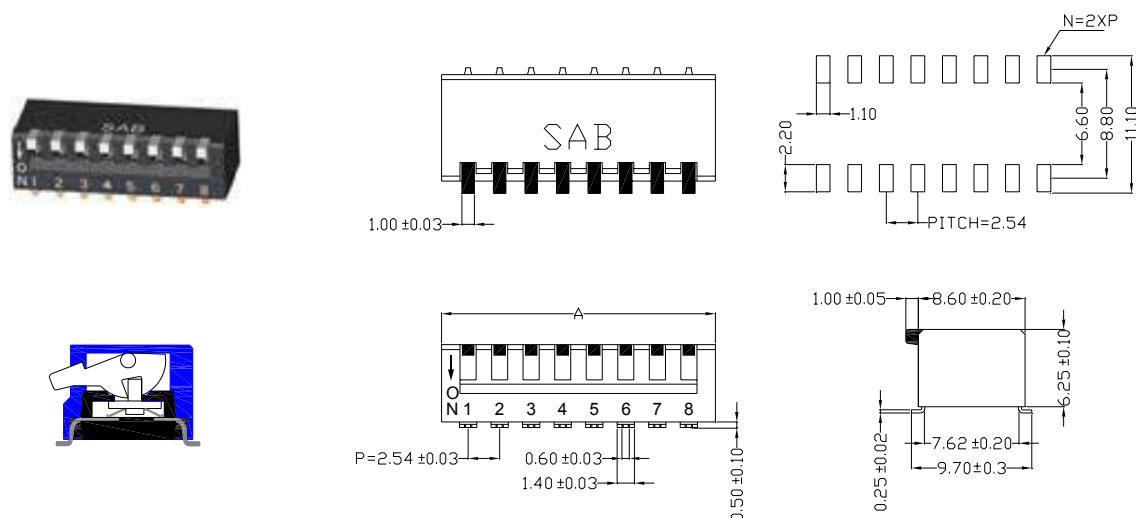
Materials:

◆ Cover	DPJ/S.....PA6T (UL 94V-0), Black DPA/H.....PA66 (UL 94V-0), Red / Blue
◆ Base	PPS (UL 94V-0), Black
◆ Actuator	DPJ/S.....PA46 (UL 94V-0), White DPA/H.....PA66 (UL 94V-0), White
◆ Terminal Contact	Gold plated
◆ Movable Contact	Gold plated
◆ Terminal	Gold plated
◆ Tape	Polyester Film

DPJ

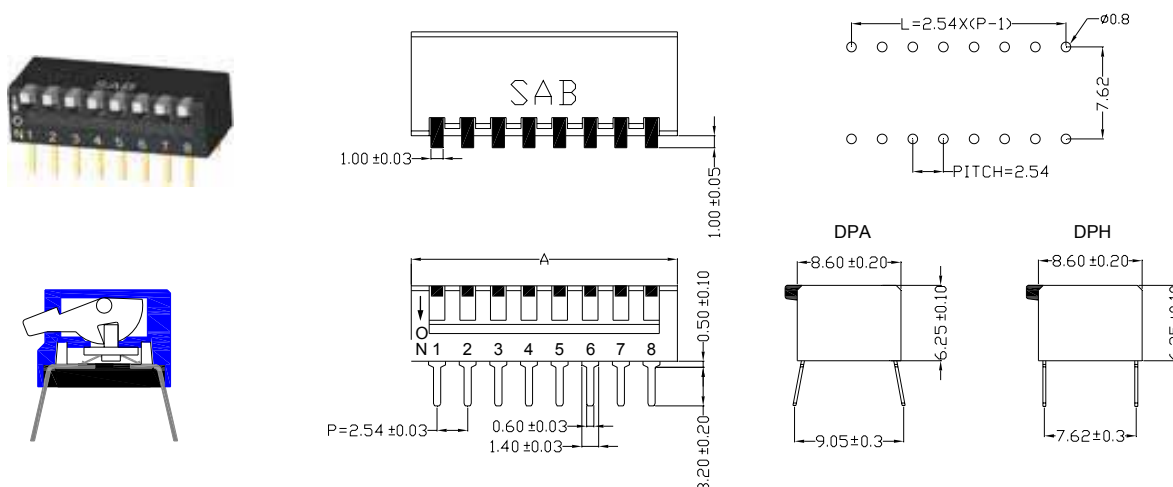


DPS



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-006	Page
DP series Piano Type			6/10

DPA/H



Part Number Table

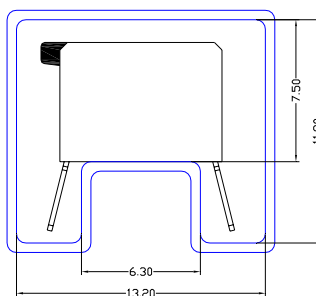
No. Pos.	Dim. "A"	Auto Insert 1u" Gold Lead Raise Actuator Tube Package	SMD 1u" Gold Lead Raise Actuator Tube Package	J Lead 3u' Gold Lead Raise Actuator Tape Reel
2	6.40	DPA02G01R	DPS02G01K	DPJ02G03-R
3	8.94	DPA03G01R	DPS03G01K	DPJ03G03-R
4	11.90	DPA04G01R	DPS04G01K	DPJ04G03-R
5	14.44	DPA05G01R	DPS05G01K	DPJ05G03-R
6	16.98	DPA06G01R	DPS06G01K	DPJ06G03-R
8	22.06	DPA08G01R	DPS08G01K	DPJ08G03-R
10	27.14	DPA10G01R	DPS10G01K	DPJ10G03-R

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-007	Page
DP series			
Piano Type			7/10

Tube Package:

POLE	2	3	4	5	6	8	10
TUBE	82	59	44	36	31	24	19
BOX	6560	4720	3520	2880	2480	1920	1520
CTN 1	13120	9440	7040	5760	4960	3840	3040
CTN 2	26240	18880	14080	11520	9920	7680	6080

DP

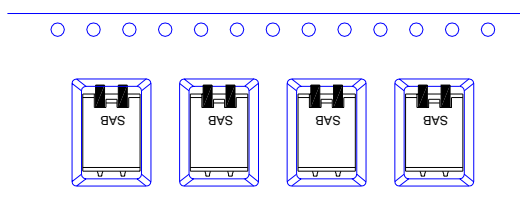


Tape & Reel package

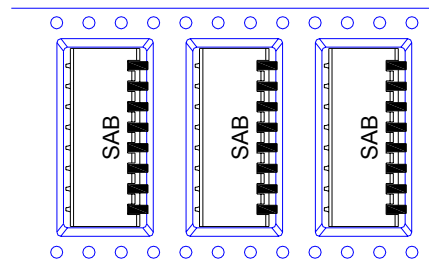
◆ DPS/J

POLE	02	03	04	05	06	08	10
Pitch (mm)	12	16	16	16	16	16	16
Width (mm)	24	24	24	24	32	44	44
Per Reel	700	500	500	500	500	500	500

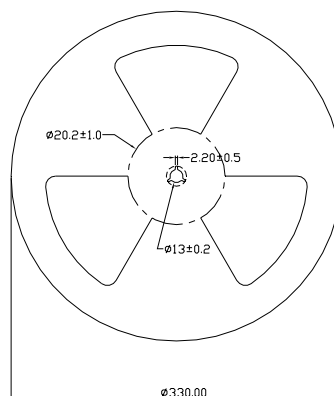
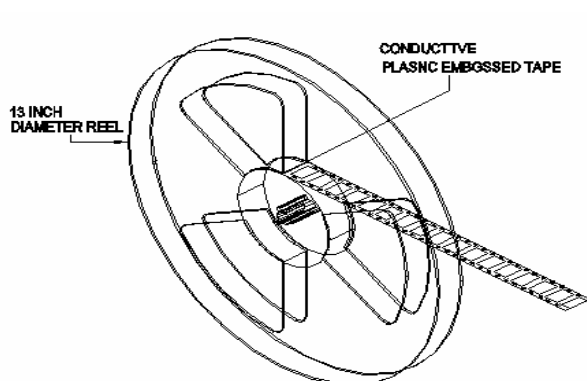
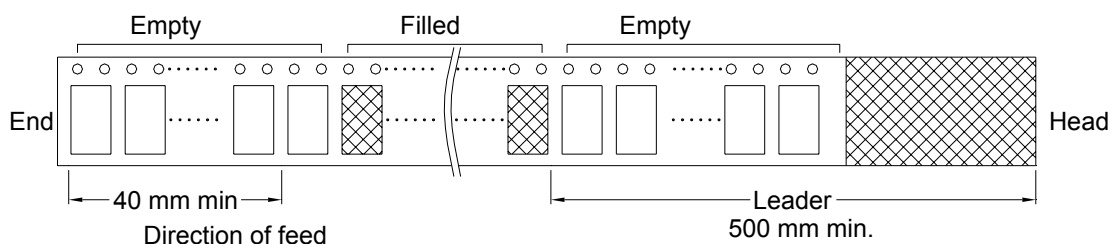
DPS02



DPS03~DPS12



MODEL DP series Piano Type	SPECIFICATION RoHS Compliant DIP SWITCH		SP-008	Page 8/10
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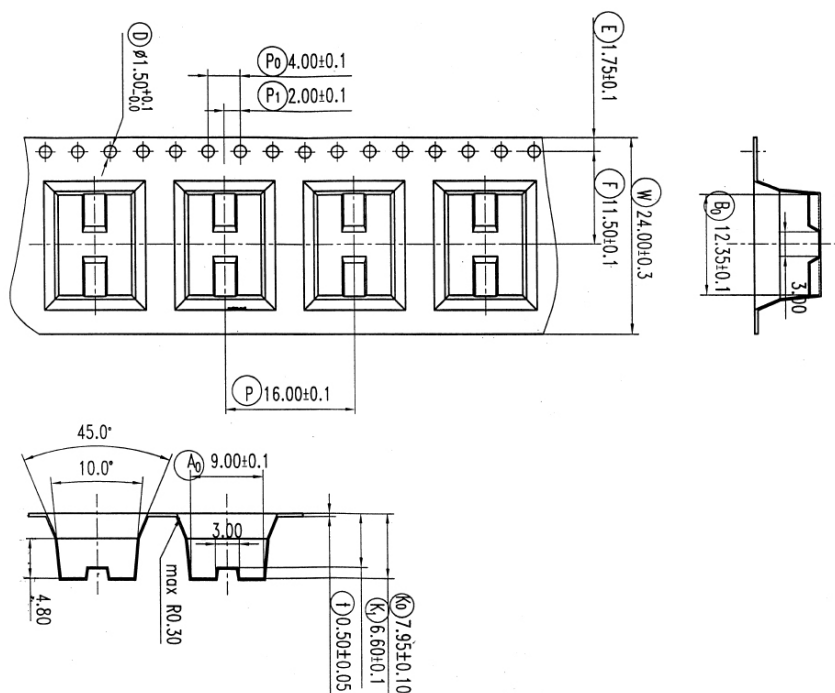


Carry Tape Table:

P/N.	Pitch(mm)	Thickness(mm)	Width (mm)	Sellotape(mm)	@REEL/BOX	Q'ty/Reel
DPS/J02	12	0.4	24	21.3	4	700
DPS/J03	16	0.4	24	21.3		500
DPS/J04	16	0.4	24	21.3		500
DPS/J05	16	0.4	24	21.3		500
DPS/J06	16	0.4	32	25.5	3	500
DPS/J08	16	0.4	44	37.5	2	500
DPS/J10	16	0.4	44	37.5		500

MODEL DP series Piano Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-009	Page 9/10

24mm



32mm

