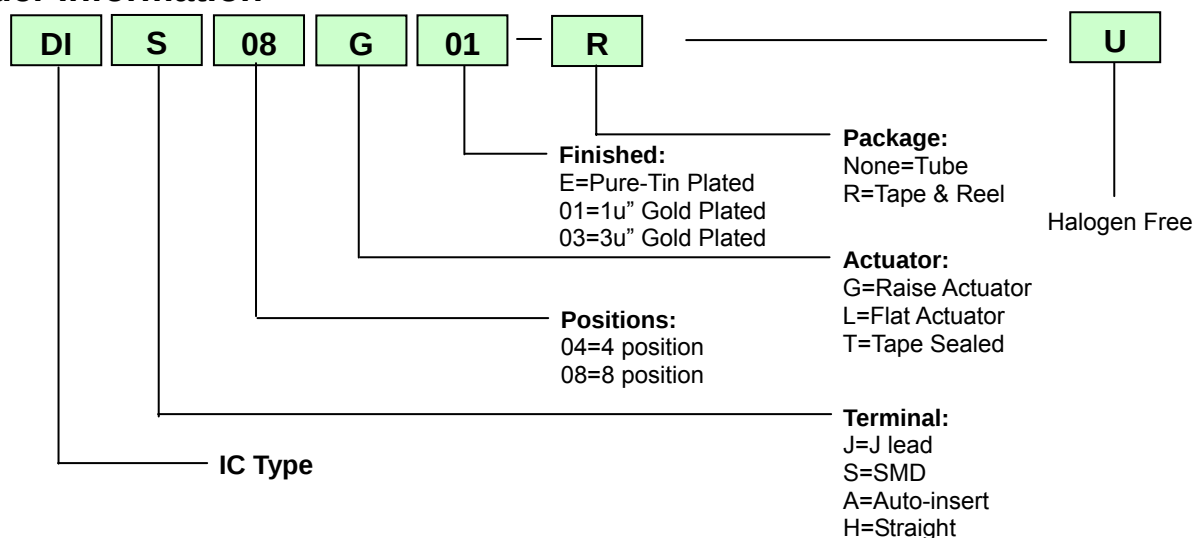


MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-001	Page
DI series			
IC Type			1/10

Order 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 500VDC
◆ Dielectric Strength		500VDC / 1 minute
◆ Operation Force		1,000g max
◆ Travel :		0.9mm
◆ Mechanical Life		5,000 cycles (Min.)
◆ Electrical Life		2,000 cycles / 25mA, 24VDC
◆ Operation Temperature		-40 ~ +85
◆ Storage Temperature		-40 ~ +85

MODEL	SPECIFICATION	SP-002	Page
DI series IC Type			2/10

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) 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 cleaning process.

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-003	Page
DI series			
IC Type			3/10

Classification Reflow Profiles

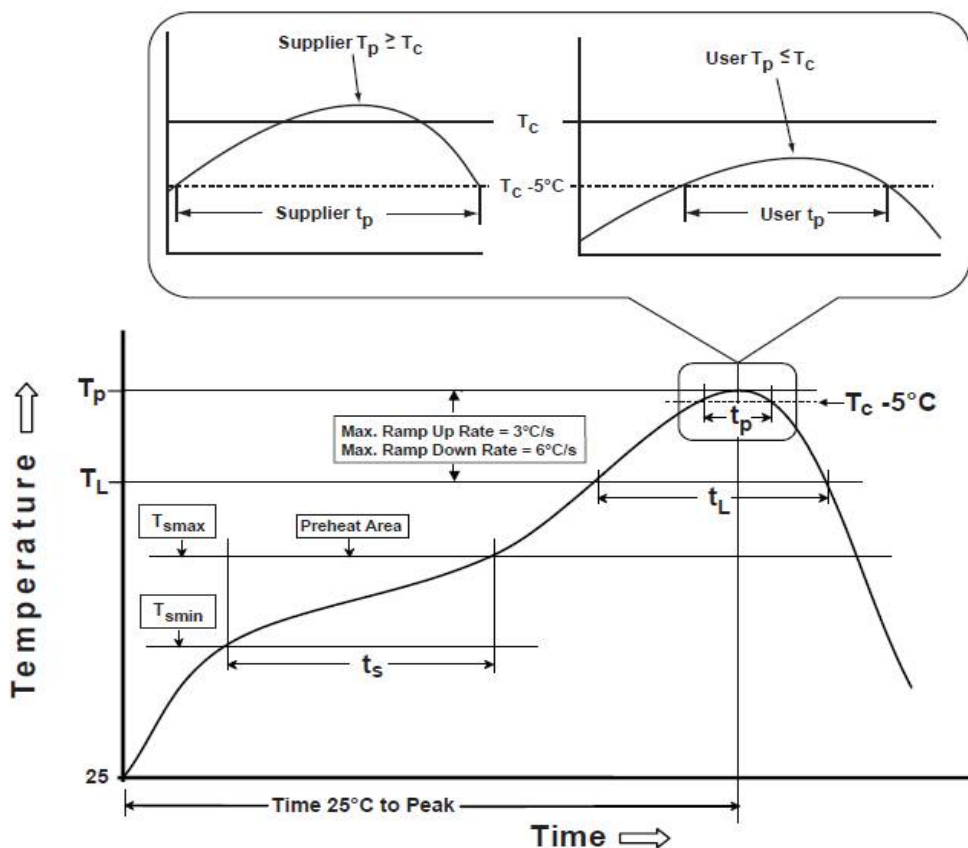
Profile Feature	Pb-Free Assembly
Preheat / Soak	
Temperature Min (T_{smin})	150
Temperature Max (T_{smax})	200
Time(ts) from (T_{smin} to T_{smax})	60 ~ 120 seconds
Ramp-up Rate (T_L to T_p)	3 /second max
Liquidous temperature (T_L)	217
Time (t_L) maintained abvoe to T_L	60 ~ 150 seconds
Peak package body temperature (T_p)	For users T_p must not exceed the Classification temp:260 (Package Thickness:>2.5mm) For supilers T_p must equal or exceed the Classification temp:250 (Package Thickness:>2.5mm)
Time (t_p) within 5 ° of specified classification Temperature (T_c)	30 seconds
Ramp-Down Rate (T_p to T_L)	6 /second max
Time 25 ° 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.

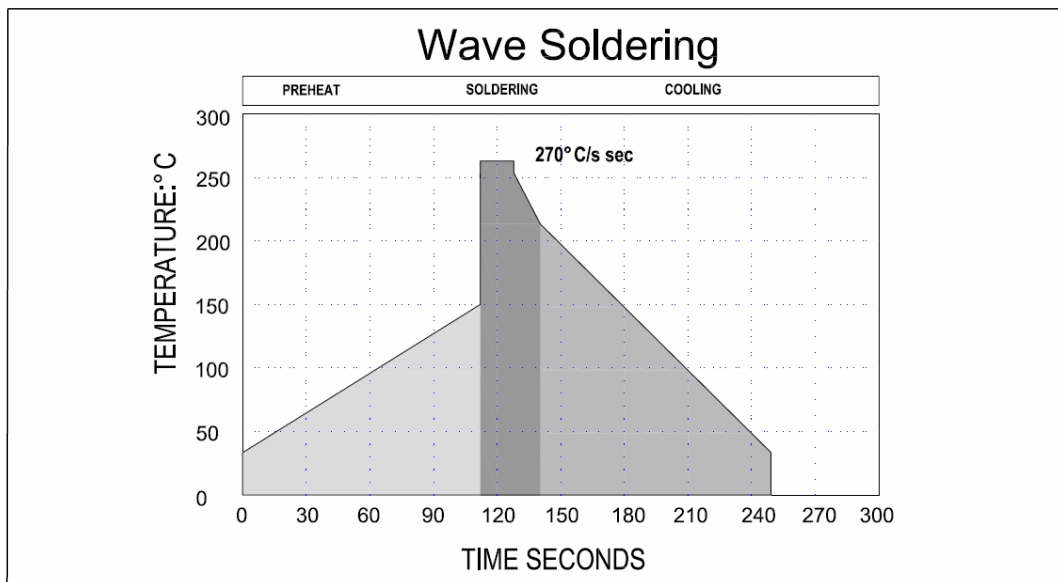
The table copy from IPC/JEDEC J-STD-020 D.1

Reflow Soldering Standard Conditions



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-004	Page
DI series			
IC Type			4/10

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 without Tape sealed..

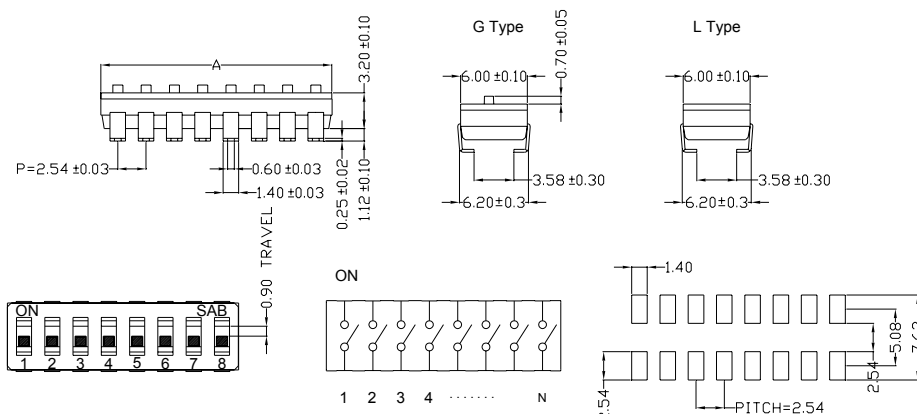
All switches must set in OFF position when through Soldering process.
Any flux enters the switch may influence contact function.

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-005	Page
DI series			
IC Type			5/10

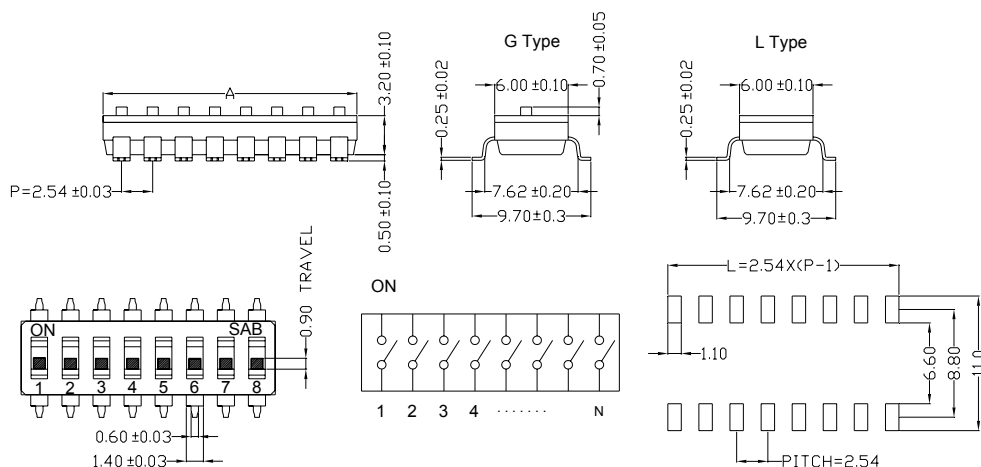
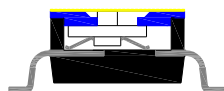
Materials

◆ Cover	Thermoplastic (UL 94V-0), Black
◆ Base	Thermoplastic (UL 94V-0), Black
◆ Actuator	DIS/DIJ.....Thermoplastic (UL 94V-0), White DIA/H.....Thermoplastic (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-Plated40u" +/-10u" Nickel Cover 1u" Gold-Plated40u" +/-10u" Nickel Cover 3u" Gold-Plated
◆ Tape	Polyimide Film

DIJ



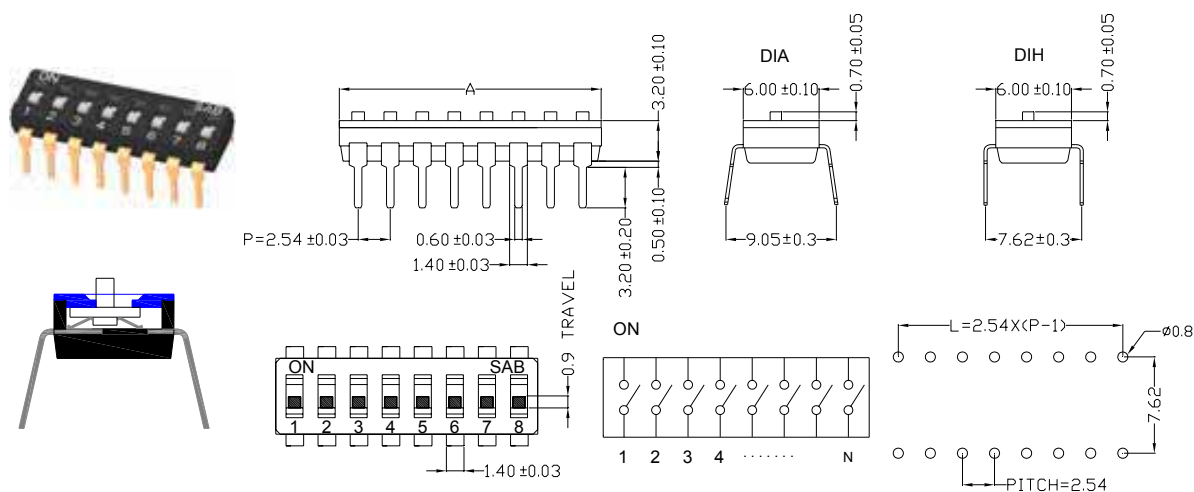
DIS



MODEL	SPECIFICATION	SP-006	Page
DI series			
IC Type			6/10

RoHS Compliant DIP SWITCH

DIA/H



Part Number Table

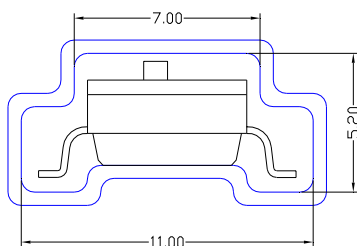
No. Pos.	Dim. "A"	Auto Insert Pure-Tin Lead Raise Actuator Tube Package	SMD 1u" Gold Lead Flat Actuator Tube Package	J Lead 3u' Gold Lead Tape Sealed Tape Reel
1	2.98	DIA01GE	DIS01L01	DIJ01T03-R
2	5.52	DIA02GE	DIS02L01	DIJ02T03-R
3	8.06	DIA03GE	DIS03L01	DIJ03T03-R
4	10.60	DIA04GE	DIS04L01	DIJ04T03-R
5	13.14	DIA05GE	DIS05L01	DIJ05T03-R
6	15.68	DIA06GE	DIS06L01	DIJ06T03-R
7	18.22	DIA07GE	DIS07L01	DIJ07T03-R
8	20.76	DIA08GE	DIS08L01	DIJ08T03-R
9	23.30	DIA09GE	DIS09L01	DIJ09T03-R
10	25.84	DIA10GE	DIS10L01	DIJ10T03-R
12	30.92	DIA12GE	DIS12L01	DIJ12T03-R

MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-007	Page
DI series			
IC Type			7/10

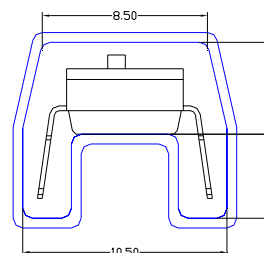
Tube Package

POLE	1	2	3	4	5	6	7	8	9	10	12
TUBE	174	95	65	48	39	33	28	25	22	20	17
BOX	17400	9500	6500	4800	3900	3300	2800	2500	2200	2000	1700
CTN 1	34800	19000	13000	9600	7800	6600	5600	5000	4400	4000	3400
CTN 2	69600	38000	26000	19200	15600	13200	11200	10000	8800	8000	6800

DIS



DIA/H



Tape & Reel package

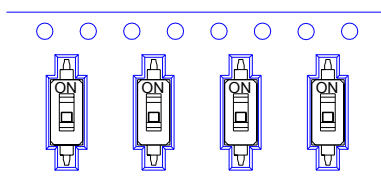
◆ DIS

POLE	01	02	03	04	05	06	07	08	09	10	12
Pitch (mm)	8	8	16	16	16	16	16	16	16	16	16
Width (mm)	16	16	16	24	24	24	32	32	44	44	44
G type / Reel	1500	1500	800	800	800	800	800	800	800	800	800
L type / Reel	2000	2000	1000	1000	1000	1000	1000	1000	1000	1000	1000

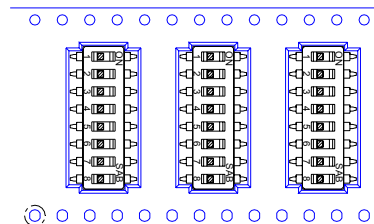
◆ DIJ

POLE	01	02	03	04	05	06	07	08	09	10	12
Pitch (mm)	8	12	12	12	12	12	12	12	12	12	12
Width (mm)	16	16	16	24	24	24	32	32	44	44	44
G type / Reel	1400	900	900	900	900	900	900	900	900	900	900
L type / Reel	1600	1100	1100	1100	1100	1100	1100	1100	1100	1100	1100

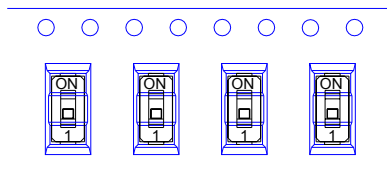
DIS01/DIS02



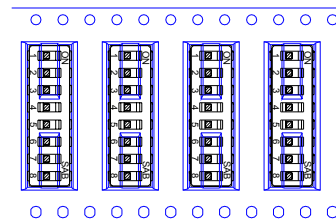
DIS03~12



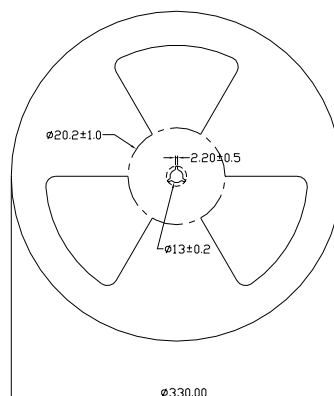
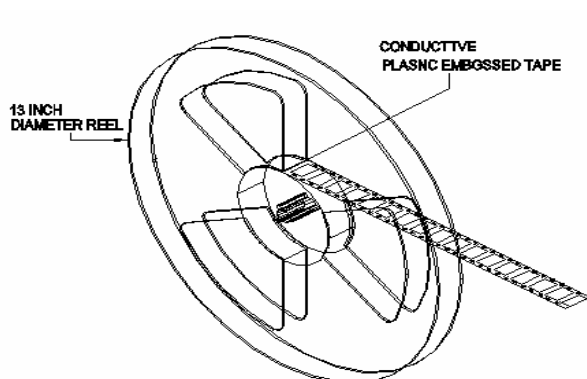
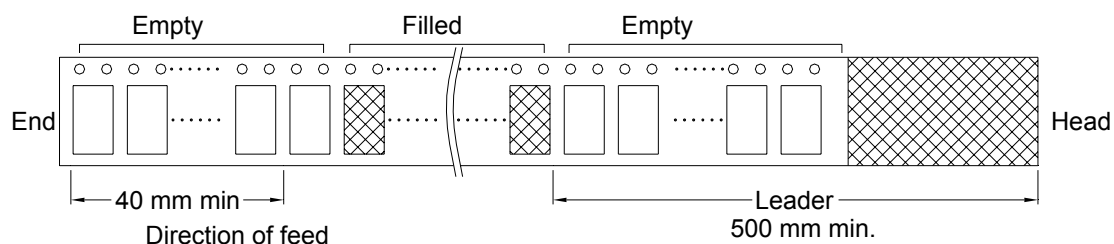
DIJ01/DIJ02



DIJ03~12



MODEL	SPECIFICATION RoHS Compliant DIP SWITCH	SP-008	Page
DI series			
IC Type			8/10

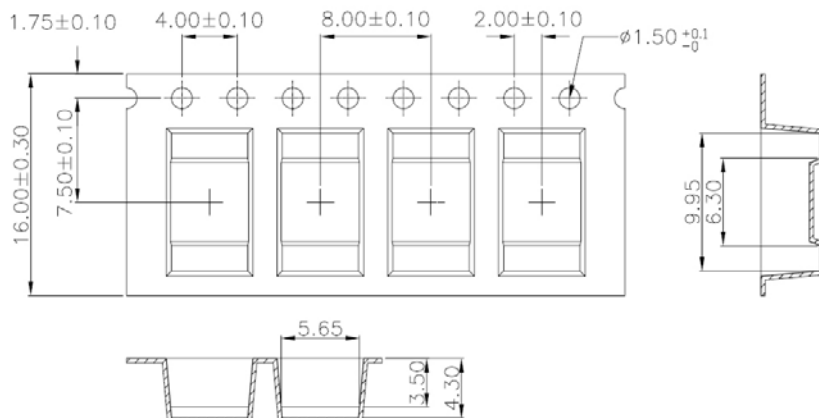


Carry Tape Table:

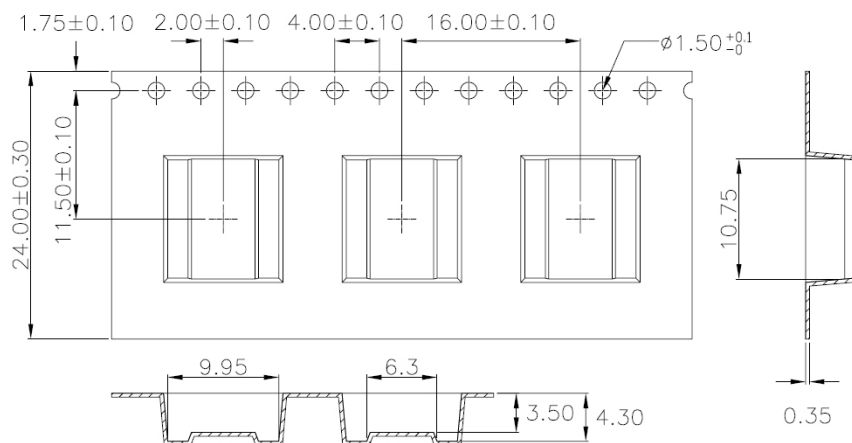
P/N.	Pitch(mm)	Thickness(mm)	Width (mm)	Sellotape(mm)	@REEL/BOX	Q'ty/Reel
DIS01	8	0.35	16	13.3	6	1500(G)/2000(L)
DIS02	8	0.35	16	13.3		1500(G)/2000(L)
DIS03	16	0.35	16	13.3		800(G)/1000(L)
DIS04	16	0.35	24	21.3	4	800(G)/1000(L)
DIS05	16	0.35	24	21.3		800(G)/1000(L)
DIS06	16	0.35	24	21.3		800(G)/1000(L)
DIS07	16	0.35	32	25.5	3	800(G)/1000(L)
DIS08	16	0.35	32	25.5		800(G)/1000(L)
DIS09	16	0.4	44	37.5	2	800(G)/1000(L)
DIS10	16	0.4	44	37.5		800(G)/1000(L)
DIS12	16	0.4	44	37.5		800(G)/1000(L)

MODEL DI series IC Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-009	Page
			9/10

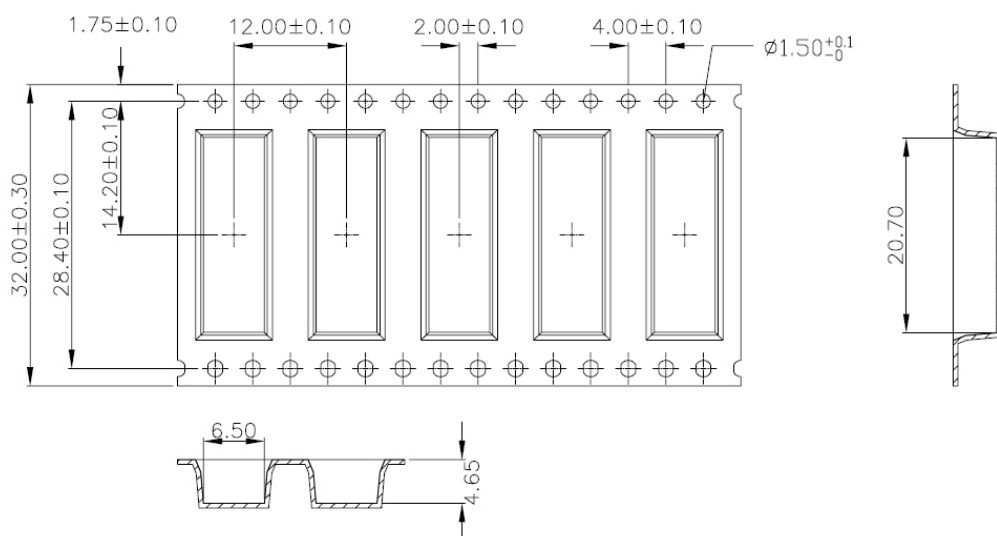
16mm



24mm

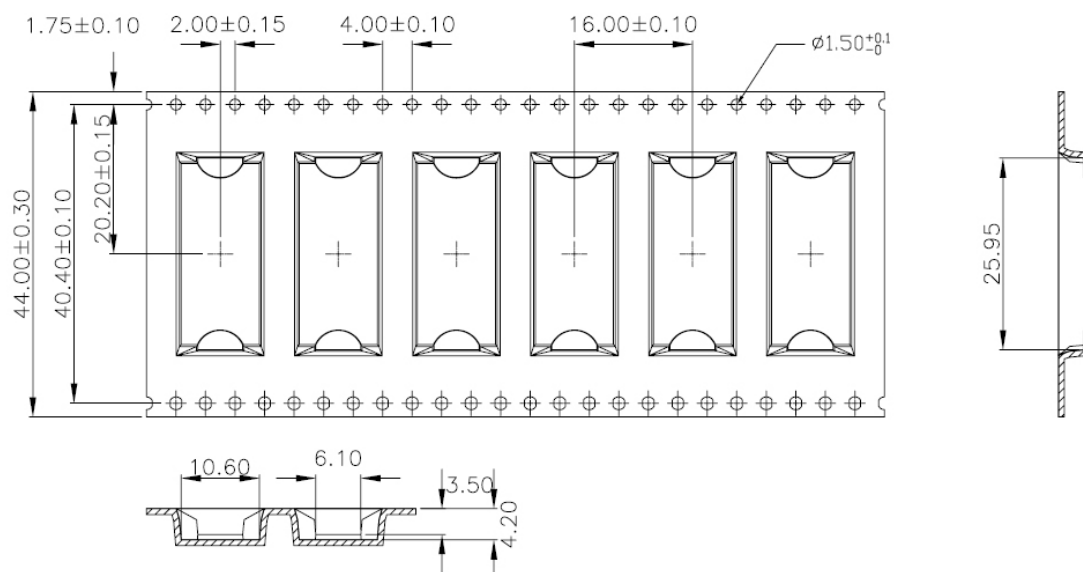


32mm



MODEL DI series IC Type	SPECIFICATION RoHS Compliant DIP SWITCH	SP-0010	Page
			10/10

44mm



Box Dimension

- ◆ Tube57.0cm × 13.0cm × 12.5cm
- ◆ Tape & Reel34.5cm x 34.5cm x 15.0cm

Carton Dimension

- ◆ Tube CTN1 / 2 Boxes.....58.5cm x 29.0cm x 15.0cm
CTN2 / 4 Boxes.....58.5cm x 28.0cm x 27.0cm
- ◆ Tape & Reel CTN1 / 1 Box.....34.5cm x 34.5cm x 15.0cm
CTN1 / 2 Boxes.....36.0cm x 27.5cm x 37.0cm