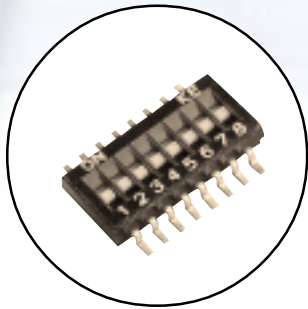


# DSHP Series

## 1.27mm Half-Pitch DIP SW

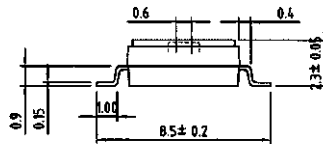
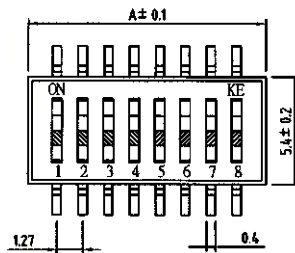


### Features

- Hyper-miniature DIP Switch, surface mount device base on 1.27mm pitch.
- Lowest contact resistance less than 50mΩ.
- Twin points and gold-plated contact, reliable design.
- All materials are UL 94V-0 grade, high temperature resistance plastic.

Packing: All DIP Switches Are Slipped In Standard IC Tubes Or Reel Package With All Poles In The " OFF "

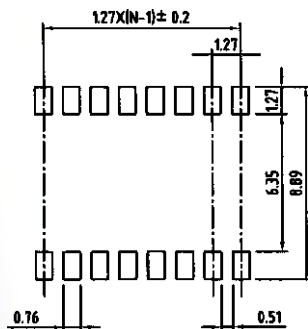
### Dimensions (unit: mm)



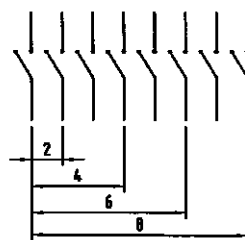
### Dimensions:

Gold/Gold plated G type P/N	Gold/Tin plated S type P/N	Unit	
		mm	inch
DSHP02TSG	DSHP02TSS	4.12	0.16
DSHP04TSG	DSHP04TSS	6.66	0.26
DSHP06TSG	DSHP06TSS	9.20	0.36
DSHP08TSG	DSHP08TSS	11.74	0.46
DSHP10TSG	DSHP10TSS	14.28	0.56
DSHP12TSG	DSHP12TSS	16.82	0.66

### P.C.B. Layout (unit: mm)



### Circuitry



### Material

Part Name	Material	Finished
Base	PPS UL94 V0	Black
Cover	PPS UL94 V0	Black
Actuator	Nylon UL94 V0	White
Movable	Beryllium	Gold/Tin
Terminal Contact	Brass	Gold/Tin
Terminal	Brass	Gold/Tin

### Ratings:

#### Contact Rating

- Switching : 25mA at 24VDC  
 Non-Switching : 100mA at 50VDC

#### Contact Resistance

- Initial : 50M Ω Max  
 After life : 100M Ω Max  
 Insulation Resistance : 100M Ω Max, Min at 100 VDC  
 Dielectric Strength : 300VAC for 60 seconds  
 Switch Capacitance : 5pF Max at 1MHZ  
 Operation Temperature : -30°C to +85°C  
 Storage Temperature : -40°C to +85°C

### Mechanical & Processing

- Operation Force : 500gf Max  
 Mechanical Life : 1000 cycles Operations  
 Resistance to Soldering : 270°C±5°C for 10 second

### 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 adhered less than before when it is placed back on, possibly causing flux inflow.
4. Sealed switches withstand aqueous, detergent and isopropyl alcohol washing.



# DSHP Series

## Environmental

### Gold Testing

Switches under temperature at  $-40^{\circ}\text{C}\pm 2^{\circ}\text{C}$  for 96 hours

### Dry Heat Testing

Switches under temperature at  $85^{\circ}\text{C}\pm 2^{\circ}\text{C}$  for 96 hours

### Humidity

Per MIL-STD-202F, Method 103B, Test Condition B:

There shall be no evidence of corrosion and the insulation resistance shall be no less than 100 megaohms.

### Vibration:

Per MIL-STD-202F, Method 204D, Test Condition A:

There shall be no opening of closed contacts or closing of open contacts in excess of 10 microseconds.

### Shock:

Per MIL-STD-202F, Method 213B, Test Condition A:

There shall be no opening of closed contacts or closing of open contacts in excess of 10 microseconds.

### Thermal Shock:

Per MIL-STD-202F, Method 107G, Test Condition A:

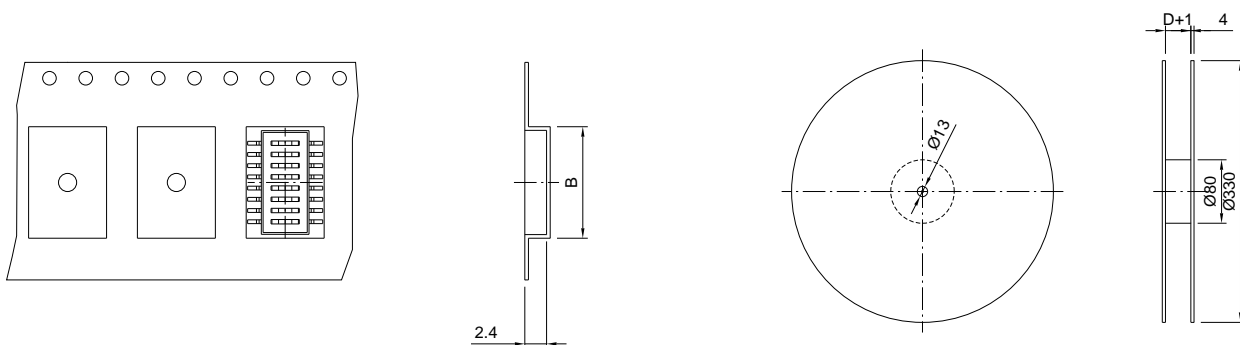
There shall be no evidence of physical damage or permanent change in electrical characteristics.

### Salt-Spray Test

Per MIL-STD-202F, Method 101D, Test Condition B:

There are under  $35\pm 2^{\circ}\text{C}$  in temperature and  $5\pm 1\%$  salt-water concentration for  $48\pm 1$  hour.

## Packing Specifications



Package	Pole	2	4	6	8	10	12
Tape & Reel	Q'TY	2,000	2,000	2,000	2,000	2,000	2,000