

# Sub-Miniature Slide Switches



## Specifications:

|                            |                                             |
|----------------------------|---------------------------------------------|
| Maximum contact rating     | : 0.4 VA at 48 V ac or dc                   |
| Minimum mechanical life    | : 40,000 operations                         |
| Maximum contact resistance | : 50 mΩ                                     |
| Insulation resistance      | : 500 MΩ at 250 V dc                        |
| Dielectric strength        | : 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature      | : -20°C to 80°C                             |
| Degree of protection       | : IP67                                      |

## Materials:

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Actuator            | : PBT, yellow std                                 |
| Housing             | : SPCC                                            |
| Case                | : PBT, washable                                   |
| Switch support      | : Brass, tin plated                               |
| Contact / terminals | : Phosphor bronze gold-plated over nickel barrier |
| Terminal seal       | : Epoxy                                           |

## Switch Function

| Number of Poles | Model Number | Switch Function |            |            | Connected Terminals / Schematic |            |            |
|-----------------|--------------|-----------------|------------|------------|---------------------------------|------------|------------|
|                 |              | Position 1      | Position 2 | Position 3 | Position 1                      | Position 2 | Position 3 |
|                 |              |                 |            |            |                                 |            |            |
| SP              | 5SES1        | ON              | NONE       | ON         | 2-1                             | N/A        | 2-3        |
|                 | 5SES3        | ON              | OFF        | ON         |                                 | Open       |            |
| DP              | 5SED1        | ON              | NONE       | ON         | 2-1, 5-4                        | N/A        | 2-3, 5-6   |
|                 | 5SED3        | ON              | OFF        | ON         |                                 | Open       |            |

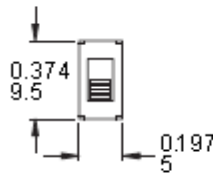
MOM = Momentary



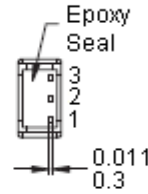
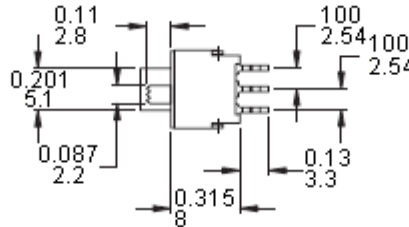
# Sub-Miniature Slide Switches



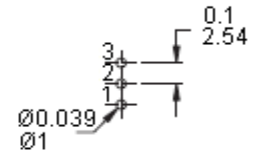
## Pole Options SPDT



**5SES1S105M2RES**

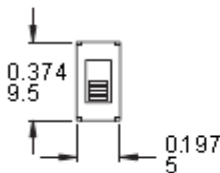


## PC Mounting

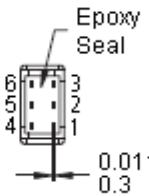
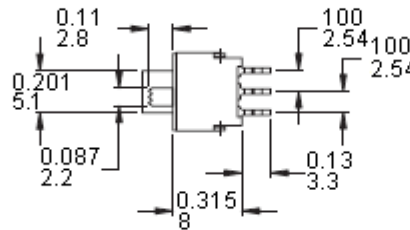


Dimensions : Inches (Millimetres)

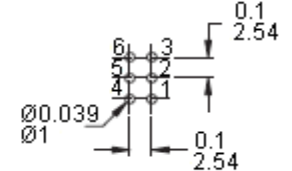
## DPDT



**5SED1S105M2RES**

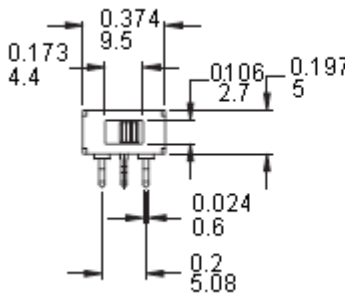


## PC Mounting

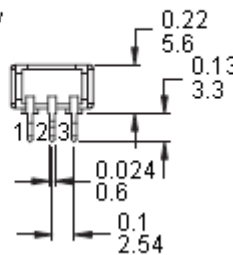
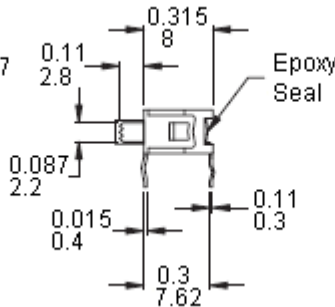


Dimensions : Inches (Millimetres)

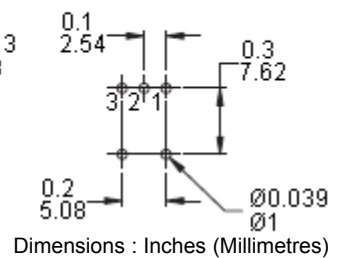
## SPDT



**5SES1S105M6RES**

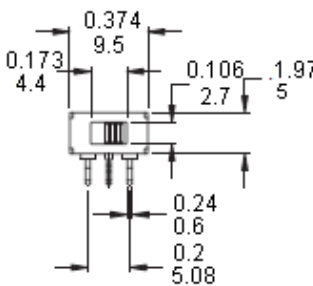


## PC Mounting

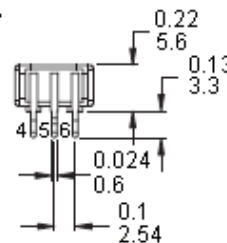
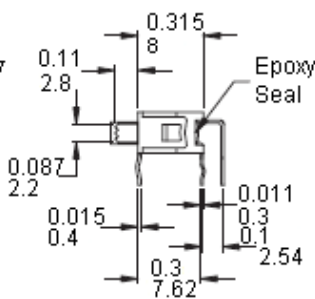


Dimensions : Inches (Millimetres)

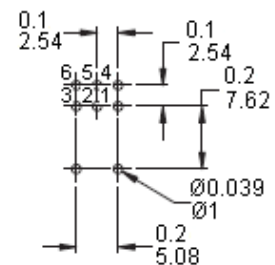
## DPDT



**5SED1S105M6RES**



## PC Mounting



Dimensions : Inches (Millimetres)

# Sub-Miniature Slide Switches



## Soldering Process:

Wave soldering : Recommended soldering temperature : 260  $\pm$ 5°C  
: Duration of solder immersion : Maximum 5 seconds (PCB is 1.6 mm in thickness)

Soldering : Vapour phase

## Part Number Table

| Description                                      | Part Number    |
|--------------------------------------------------|----------------|
| Switch, IP67, SPDT, ON-NON-ON, PCB               | 5SES1S105M2RES |
| Switch, IP67, SPDT, ON-NON-ON, PCB Right / Angle | 5SES1S105M6RES |
| Switch, IP67, SPDT, ON-OFF-ON, PCB               | 5SES3S105M2RES |
| Switch, IP67, SPDT, ON-OFF-ON, PCB Right / Angle | 5SES3S105M6RES |
| Switch, IP67, DPDT, ON-NON-ON, PCB               | 5SED1S105M2RES |
| Switch, IP67, DPDT, ON-NON-ON, PCB Right / Angle | 5SED1S105M6RES |
| Switch, IP67, DPDT, ON-OFF-ON, PCB               | 5SED3S105M2RES |
| Switch, IP67, DPDT, ON-OFF-ON, PCB Right / Angle | 5SED3S105M6RES |

## Part Number Explanation:

**5SES1**

Model  
Number

**S105**

Actuator

**M2**

Terminations

**R**

Contact  
Material

**E**

Seal

**S**

RoHS  
Soldering

**Model Number** : 5SES1 = SP On-None-On, 5SES3 = SP On-Off -On, 5SED1= DP On-None-On and 5SED3 = DP On-Off-On  
**Actuator** : S105 = 2.8 height  
**Terminations** : M2 = PC thru-hole and M6 = Right angle, PC thru-hole  
**Contact Material** : R = Gold  
**Seal** : E = Epoxy (std)  
**RoHS Soldering** : S = RoHS and Lead Free

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