

# Slide Switches

## Miniature



### Specifications:

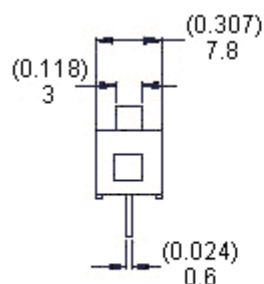
|                                    |                                               |
|------------------------------------|-----------------------------------------------|
| Maximum Contact Rating             | : 0.4 (VA) maximum at 20 V maximum (AC or DC) |
| Mechanical Life                    | : 20,000 cycles                               |
| Maximum Initial Contact Resistance | : 50 mΩ                                       |
| Minimum Insulation Resistance      | : 1,000 MΩ                                    |
| Dielectric Strength                | : 1,000 V RMS at sea level                    |
| Operating Temperature              | : -40°C to 80°C                               |
| Minimum Load                       | : 10 mA, 50 mV                                |
| Breaking Capacity                  | : 100 mA, 30 V dc with resistive load         |

### Materials

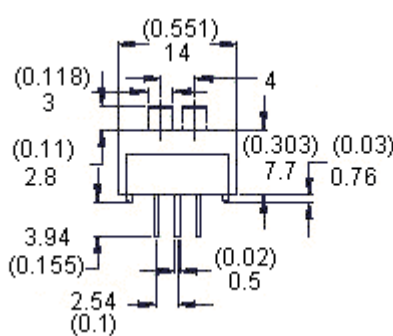
|                      |                                  |
|----------------------|----------------------------------|
| Case                 | : Nylon, white                   |
| Housing              | : Nylon, black                   |
| Actuator             | : Nylon, black                   |
| Contacts / Terminals | : Copper alloy, with gold plated |

### Pole Option

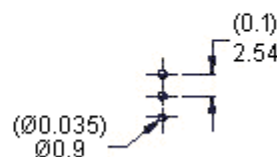
#### M1RE



#### SPDT

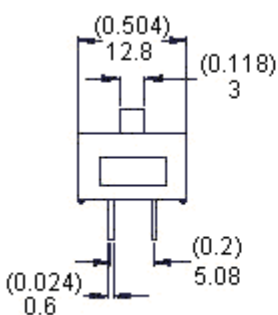


#### PCB Mounting

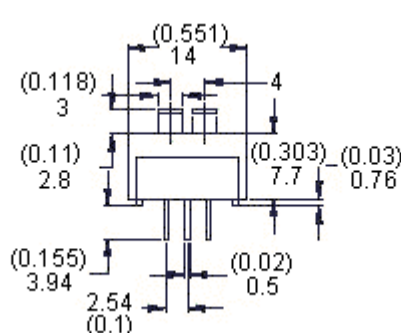


Dimensions : Millimetres (Inches)

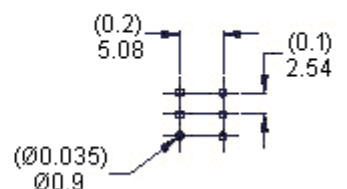
#### M2RE



#### DPDT



#### PCB Mounting



Dimensions : Millimetres (Inches)

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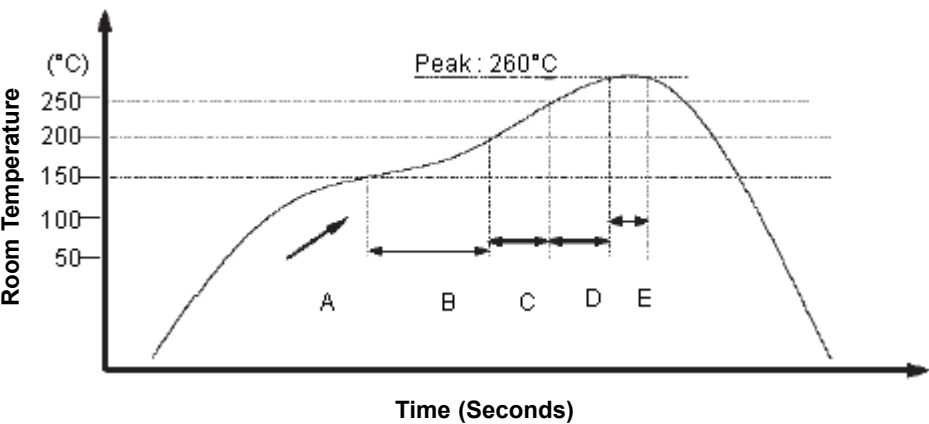
### Soldering Process :

**Manual Soldering :** Use soldering iron of 30 W, controlled at 350°C approximately 5 seconds while applying solder

**Wave Soldering :**

**Recommended Soldering Temperature :** 260 ±5°C  
 Duration of solder immersion : 5 ±1 seconds (PCB is 1.6 mm in thickness)  
**Soldering :** Vapour phase

| Temperature Profile |                       |                |
|---------------------|-----------------------|----------------|
| Zone                | Room Temperature (°C) | Time (Seconds) |
| Pre-heat (A)        | 150°C                 | Minimum 120    |
| Soak (B)            | 180°C to 200°C        | Minimum 150    |
| Peak (C)            | 200°C to 235°C        | Minimum 30     |
| Peak (D)            | 235°C to 260°C        | Minimum 40     |
| Peak (E)            | 260°C                 | Maximum 10     |



### Specification Table

| Number of Poles | Switch Function |            |            | Connected Terminals |            |              | Schematic | Model Number |
|-----------------|-----------------|------------|------------|---------------------|------------|--------------|-----------|--------------|
|                 | Position 1      | Position 2 | Position 3 | Position 1          | Position 2 | Position 3   |           |              |
|                 |                 |            |            |                     |            |              |           |              |
| SP              | On              | None       | On         | 2 - 1               | Open       | 2 - 3        |           | 6MS1         |
| DP              |                 |            |            | 2 - 1, 5 - 4        |            | 2 - 3, 5 - 6 |           | 6MD1         |



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### Part Number Table

| Description                       | Part Number |
|-----------------------------------|-------------|
| Switch, Slide, SPDT, On-On        | 6MS1S2M1RE  |
| Switch, Slide, DPDT, On-On        | 6MD1S2M2RE  |
| Switch, Slide, SPDT, On-On        | 6MS1S4M1RE  |
| Switch, Slide, DPDT, On-On        | 6MD1S4M2RE  |
| Switch, Slide, SPDT, R / A, On-On | 6MS1S3M1RE  |
| Switch, Slide, DPDT, R / A, On-On | 6MD1S3M2RE  |

### Part Number Explanation :

**6MS1**

Model  
Number

**S2**

Actuator

**M1**

Terminations

**R**

Contact  
Material

**E**

Seal

|                         |                                                               |
|-------------------------|---------------------------------------------------------------|
| <b>Model Number</b>     | : 6MS1 = SP On-None-On and 6MD1 = DP On-None-On               |
| <b>Actuator</b>         | : S2 = 2.8 high, S3 = Side and S4 = 6 high                    |
| <b>Terminations</b>     | : M1 = SPDT - PC Through Hole and M2 = DPDT - PC Through Hole |
| <b>Contact Material</b> | : R = Gold                                                    |
| <b>Seal</b>             | : E = Epoxy (std)                                             |

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