

# OS Series Miniature Slide Switches

## Features/Benefits

- Variety of actuators & terminations
- PC and panel mounting
- Gold or silver plating available
- Shorting or non-shorting contacts
- RoHS compliant
- Halogen free material

## Typical Applications

- Test & measurement equipment
- Computer peripherals & network products
- Consumer products



## Specifications

CONTACT RATING: See individual parts.  
MECHANICAL & ELECTRICAL LIFE: 10,000 cycles.  
CONTACT RESISTANCE: 20 mΩ or less.  
INSULATION RESISTANCE: 100 MΩ min. at 500 VDC.  
DIELECTRIC STRENGTH: 500 VAC for 1 minute.  
OPERATING TEMPERATURE: -30°C to +70°C.  
PACKAGING: Bulk

\* For RoHS compatible switches contact customer service.

## Materials

BASE: Phenolic resin.  
ACTUATOR: POM, black.  
HOUSING PLATE: Non-compatible; SPCC Sn plated.  
Compatible; SPCC Ni plated.  
MOVABLE CONTACT: Copper alloy, silver plated or gold.  
STATIONARY CONTACTS: Brass, silver plated.  
TERMINALS: Brass, silver plated (Gold plate - Contact customer service).  
TERMINAL SEALED.

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

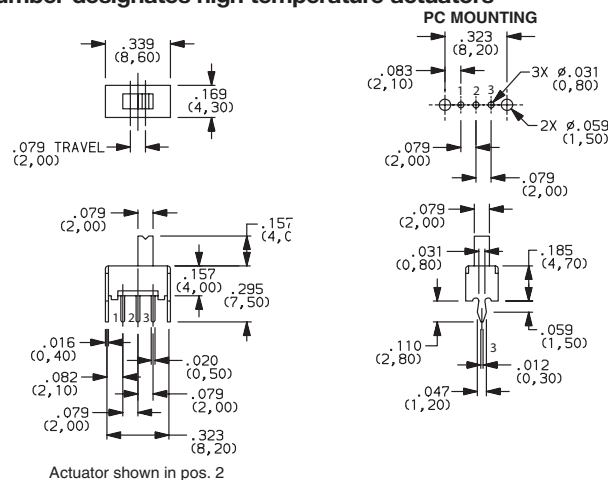
## How To Order

Complete part numbers for OS Series Slide Switches are shown on pages I-37 through I-43.

**NOTE: Adding "C" option at the end of part number designates high temperature actuators**

| PART NUMBER                              |                |                 | SWITCH FUNCTION |       |
|------------------------------------------|----------------|-----------------|-----------------|-------|
|                                          | RoHS Compliant | RoHS Compatible | POS.1           | POS.2 |
| <b>OS102011MS2QN1</b><br>(non-shorting)  | YES            | NO              | ON              | ON    |
| <b>OS102011MS2QN1C</b><br>(non-shorting) | YES            | YES             | ON              | ON    |
| <b>OS102011MS2QS1</b><br>(shorting)      | YES            | NO              | ON              | ON    |
| <b>OS102011MS2QS1C</b><br>(shorting)     | YES            | YES             | ON              | ON    |
| CONN. TERMINALS                          |                |                 | 1-2             | 2-3   |
| SCHEMATIC<br>                            |                |                 |                 |       |
| SPDT                                     |                |                 |                 |       |

CONTACT RATING: 0.1A @ 12 VDC

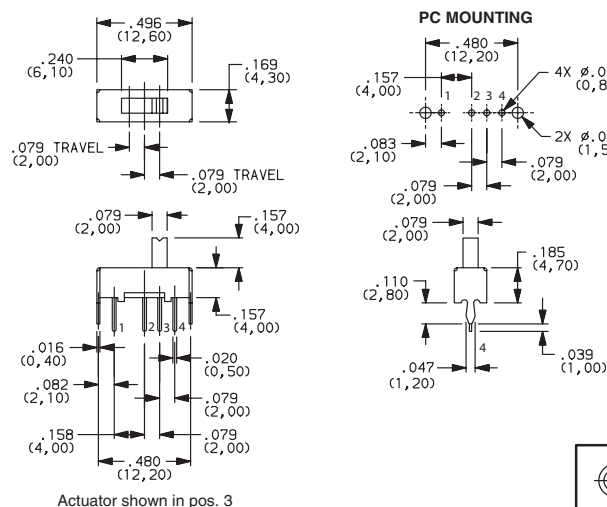


Actuator shown in pos. 2

OS102011MS2QN1  
SPDT

| PART NUMBER                               |                |                 | SWITCH FUNCTION |       |       |
|-------------------------------------------|----------------|-----------------|-----------------|-------|-------|
|                                           | ROHS Compliant | ROHS Compatible | POS.1           | POS.2 | POS.3 |
| <b>OS103011MS8QP1</b><br>(Non-specified)  | YES            | NO              | ON              | ON    | ON    |
| <b>OS103011MS8QP1C</b><br>(Non-specified) | YES            | YES             | ON              | ON    | ON    |
| CONN. TERMINALS                           |                |                 | 1-2             | 2-3   | 2-4   |
| SCHEMATIC<br>                             |                |                 |                 |       |       |
| SP3T                                      |                |                 |                 |       |       |

CONTACT RATING: 0.1A @ 12 VDC



Actuator shown in pos. 3

OS103011MS8QP1  
SP3T



Third Angle  
Projection

Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# Slide



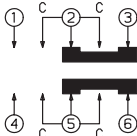
11



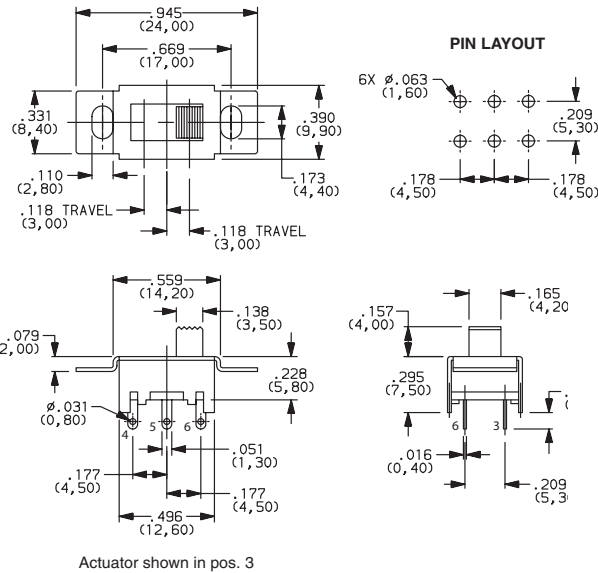
Dimensions are shown: Inch (mm)

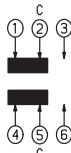
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# OS Series Miniature Slide Switches

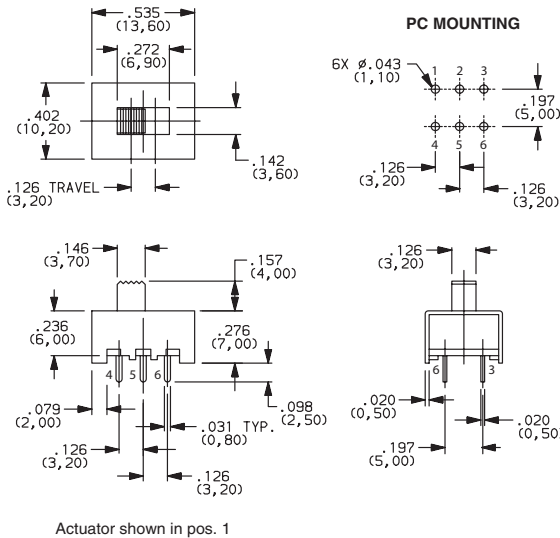
| PART NUMBER                                                                       |                |                 | SWITCH FUNCTION |       |          |
|-----------------------------------------------------------------------------------|----------------|-----------------|-----------------|-------|----------|
|                                                                                   | ROHS Compliant | ROHS Compatible | POS.1           | POS.2 | POS.3    |
| OS203013MT7QN1<br>(Non-shorting)                                                  | YES            | NO              | ON              | OFF   | ON       |
| CONN. TERMINALS                                                                   |                |                 | 1-2, 4-5        |       | 2-3, 5-6 |
| SCHEMATIC                                                                         |                |                 |                 |       |          |
|  |                |                 |                 |       |          |
| DP3T                                                                              |                |                 |                 |       |          |

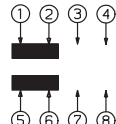
CONTACT RATING: 0.3A @ 30 VDC



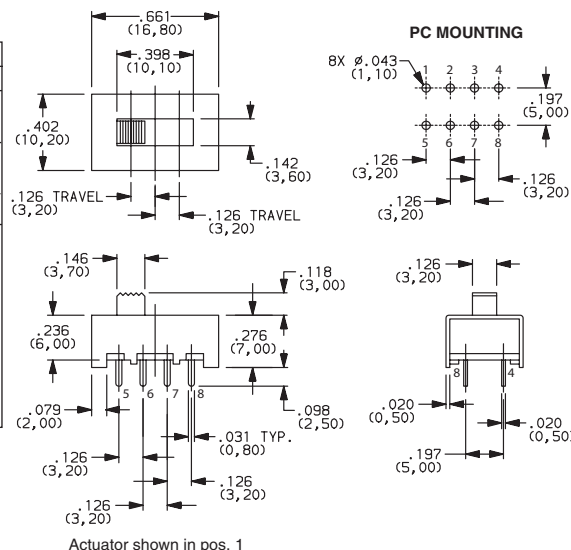
|                                                                                     |                |                 | SWITCH FUNCTION                                                                   |                                                                                   |
|-------------------------------------------------------------------------------------|----------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                     |                |                 | POS.1                                                                             | POS.2                                                                             |
| PART NUMBER                                                                         | RoHS Compliant | RoHS Compatible |  |  |
| OS202013MT8QN1<br>(Non-shorting)                                                    | YES            | NO              | ON                                                                                | ON                                                                                |
| CONN. TERMINALS                                                                     |                |                 | 1-2, 4-5                                                                          | 2-3, 5-6                                                                          |
| SCHEMATIC                                                                           |                |                 |                                                                                   |                                                                                   |
|  |                |                 |                                                                                   |                                                                                   |
| DPDT                                                                                |                |                 |                                                                                   |                                                                                   |

CONTACT RATING: 0.3A @ 30 VDC



| PART NUMBER                                                                         |                   |                    | SWITCH FUNCTION                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                     |                   |                    | POS.1                                                                               | POS.2                                                                               | POS.3                                                                               |
|                                                                                     | ROHS<br>Compliant | ROHS<br>Compatible |  |  |  |
| OS203013MT8QN1<br>(Non-shorting)                                                    | YES               | NO                 | ON                                                                                  | ON                                                                                  | ON                                                                                  |
| CONN. TERMINALS                                                                     |                   |                    | 1-2, 5-6                                                                            | 2-3, 6-7                                                                            | 3-4, 7-8                                                                            |
| SCHEMATIC                                                                           |                   |                    |                                                                                     |                                                                                     |                                                                                     |
|  |                   |                    |                                                                                     |                                                                                     |                                                                                     |
| DP3T                                                                                |                   |                    |                                                                                     |                                                                                     |                                                                                     |

CONTACT RATING: 0.3A @ 30 VDC

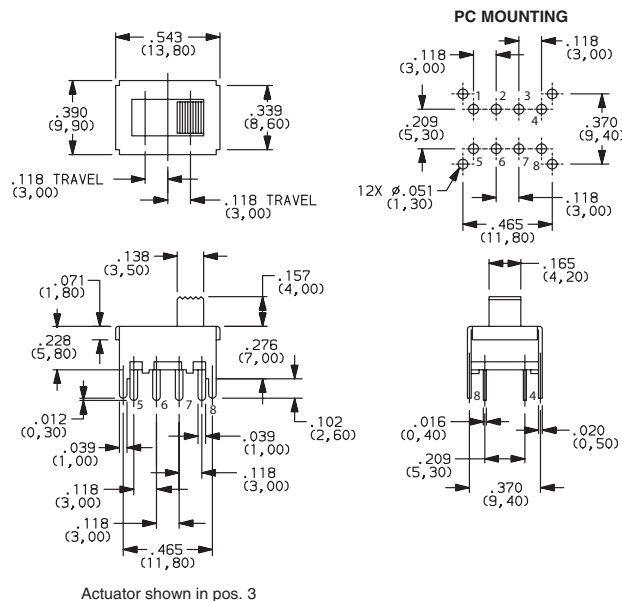


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



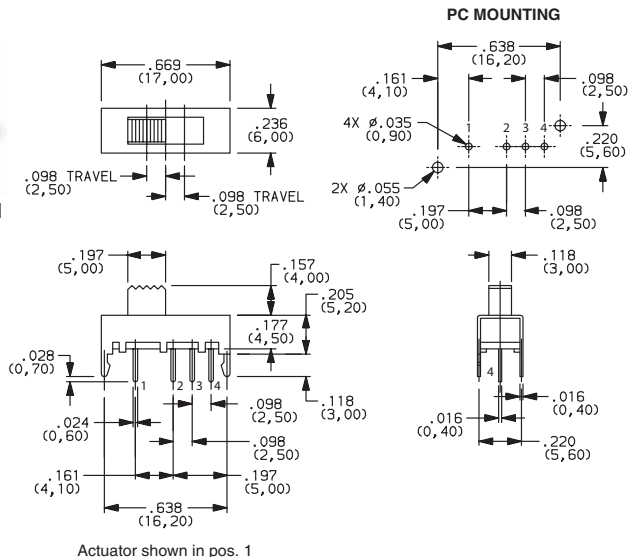
# OS Series

## Miniature Slide Switches



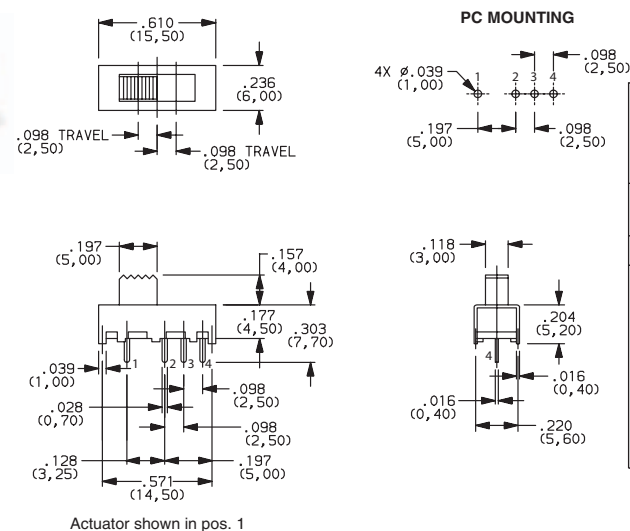
| PART NUMBER                      | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION |          |          |
|----------------------------------|----------------|-----------------|-----------------|----------|----------|
|                                  |                |                 | POS.1           | POS.2    | POS.3    |
| OS203013MT6QN1<br>(Non-shorting) | YES            | NO              | ON              | ON       | ON       |
| CONN. TERMINALS                  |                |                 | 1-2, 5-6        | 2-3, 6-7 | 3-4, 7-8 |
| SCHEMATIC                        |                |                 |                 |          |          |
| DP3T                             |                |                 |                 |          |          |

CONTACT RATING: 0.2A @ 30 VDC



| PART NUMBER                      | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION |       |       |
|----------------------------------|----------------|-----------------|-----------------|-------|-------|
|                                  |                |                 | POS.1           | POS.2 | POS.3 |
| OS103012MU1QP1<br>(Non-shorting) | YES            | NO              | ON              | ON    | ON    |
| CONN. TERMINALS                  |                |                 | 1-2             | 2-3   | 2-4   |
| SCHEMATIC                        |                |                 |                 |       |       |
| SP3T                             |                |                 |                 |       |       |

CONTACT RATING: 0.2A @ 30 VDC



| PART NUMBER                      | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION |       |       |
|----------------------------------|----------------|-----------------|-----------------|-------|-------|
|                                  |                |                 | POS.1           | POS.2 | POS.3 |
| OS103012MU2QP1<br>(Non-shorting) | YES            | NO              | ON              | ON    | ON    |
| CONN. TERMINALS                  |                |                 | 1-2             | 2-3   | 2-4   |
| SCHEMATIC                        |                |                 |                 |       |       |
| SP3T                             |                |                 |                 |       |       |

CONTACT RATING: 0.2A @ 30 VDC

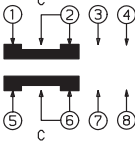


Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change

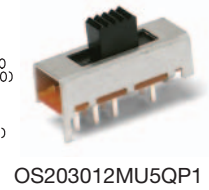
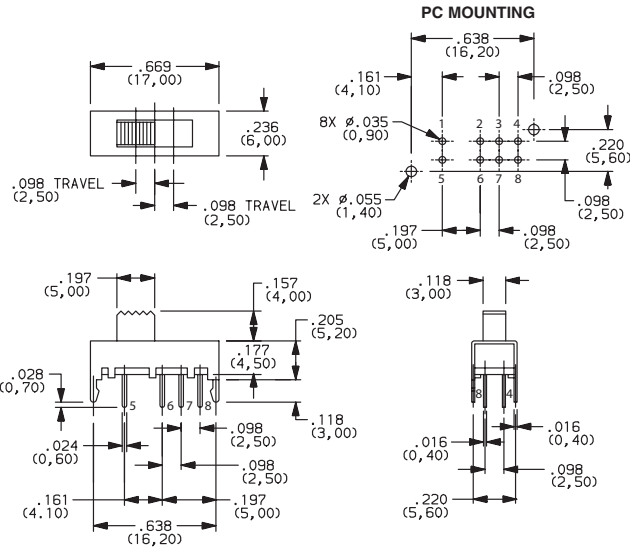
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# OS Series Miniature Slide Switches

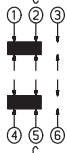
| PART NUMBER                                                                                    |                |                 | SWITCH FUNCTION |          |          |
|------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------|----------|----------|
|                                                                                                | ROHS Compliant | ROHS Compatible | POS.1           | POS.2    | POS.3    |
| <b>OS203012MU5QP1</b><br>(Non-specified)                                                       | YES            | NO              | ON              | ON       | ON       |
| CONN. TERMINALS                                                                                |                |                 | 1-2, 5-6        | 2-3, 6-7 | 2-4, 6-8 |
| SCHEMATIC<br> |                |                 |                 |          |          |
| DP3T                                                                                           |                |                 |                 |          |          |

CONTACT RATING: 0.1A @ 30 VDC

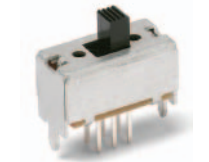
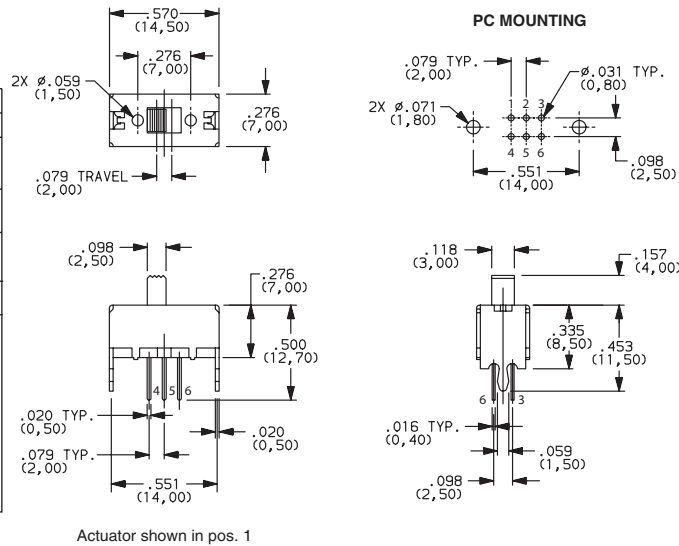


OS203012MU5QP1  
DP3T

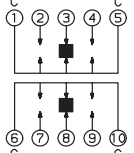


| PART NUMBER                                                                                      |                |                 | SWITCH FUNCTION |          |
|--------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------|----------|
|                                                                                                  | RoHS Compliant | RoHS Compatible | POS.1           | POS.2    |
| <b>OS202011MV4QN1</b><br>(Non-shorting)                                                          | YES            | NO              | ON              | ON       |
| <b>OS202011MV4QS1</b><br>(Shorting)                                                              | YES            | NO              | ON              | ON       |
| CONN. TERMINALS                                                                                  |                |                 | 1-2, 4-5        | 2-3, 5-6 |
| SCHEMATIC<br> |                |                 |                 |          |
| DPDT                                                                                             |                |                 |                 |          |

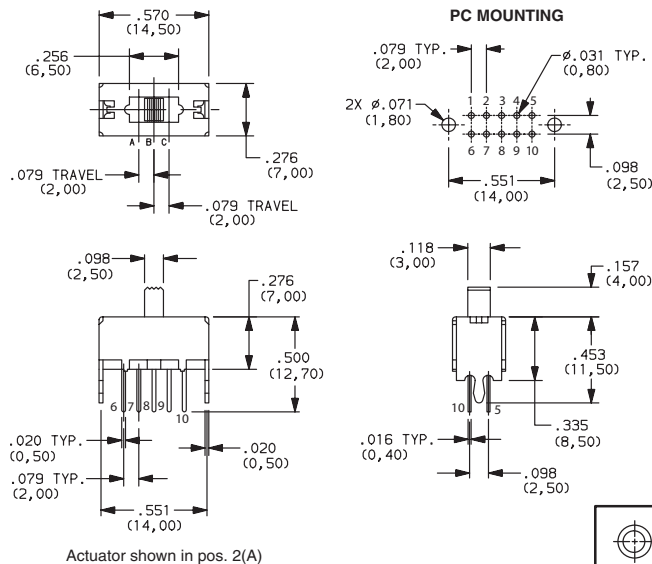
CONTACT RATING: 0.1A @ 30 VDC



OS202011MV4QN1  
DPDT

| PART NUMBER                                                                                      |                |                 | SWITCH FUNCTION |                 |                 |
|--------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------|-----------------|-----------------|
|                                                                                                  | ROHS Compliant | ROHS Compatible | POS.1           | POS.2           | POS.3           |
| <b>OS203011MV9QS1</b><br>(Shorting)                                                              | YES            | NO              | ON              | ON              | ON              |
| <b>OS203011MV9QN1</b><br>(Non-Shorting)                                                          | YES            | NO              | ON              | ON              | ON              |
| CONN. TERMINALS                                                                                  |                |                 | 1-2-5<br>6-7-10 | 1-3-5<br>6-8-10 | 1-4-5<br>6-9-10 |
| SCHEMATIC<br> |                |                 |                 |                 |                 |
| DP3T                                                                                             |                |                 |                 |                 |                 |

CONTACT RATING: 0.1A @ 30 VDC



OS203011MV9QS1  
DP3T

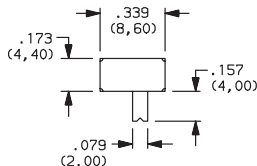


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

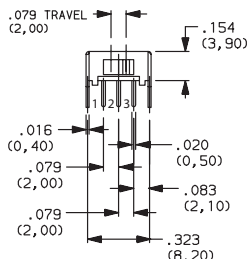
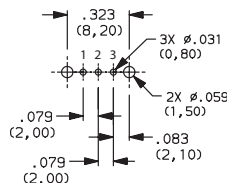
# OS Series Miniature Slide Switches



OS102011MA1QN1  
SPDT



PC MOUNTING



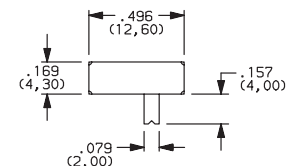
Actuator shown in pos. 2

| PART NUMBER                                                                         |                |                 | SWITCH FUNCTION                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|----------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                     | RoHS Compliant | RoHS Compatible | POS.1                                                                               | POS.2                                                                               |
|                                                                                     |                |                 |  |  |
| OS102011MA1QN1<br>(Non-shorting)                                                    | YES            | NO              | ON                                                                                  | ON                                                                                  |
| OS102011MA1QN1C<br>(Non-shorting)                                                   | YES            | YES             | ON                                                                                  | ON                                                                                  |
| OS102011MA1QS1<br>(Shorting)                                                        | YES            | NO              | ON                                                                                  | ON                                                                                  |
| OS102011MA1QS1C<br>(Shorting)                                                       | YES            | YES             | ON                                                                                  | ON                                                                                  |
| CONN. TERMINALS                                                                     |                |                 | 1-2                                                                                 | 2-3                                                                                 |
| SCHEMATIC                                                                           |                |                 |                                                                                     |                                                                                     |
|  |                |                 |                                                                                     |                                                                                     |
| SPDT                                                                                |                |                 |                                                                                     |                                                                                     |

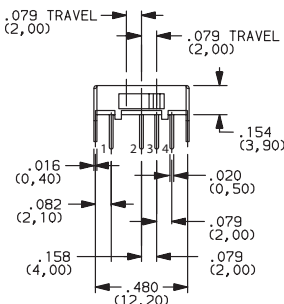
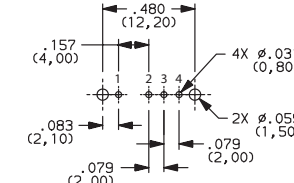
CONTACT RATING: 0.1A @ 12 VDC



OS103011MA7QP1  
SP3T



PC MOUNTING



Actuator shown in pos. 3

| PART NUMBER                        |                |                 | SWITCH FUNCTION |       |       |
|------------------------------------|----------------|-----------------|-----------------|-------|-------|
|                                    | ROHS Compliant | ROHS Compatible | POS.1           | POS.2 | POS.3 |
| OS103011MA7QP1<br>(Non-specified)  | YES            | NO              | ON              | ON    | ON    |
| OS103011MA7QP1C<br>(Non-specified) | YES            | YES             | ON              | ON    | ON    |
| CONN. TERMINALS                    |                |                 | 1-2             | 2-3   | 2-4   |

SCHEMATIC

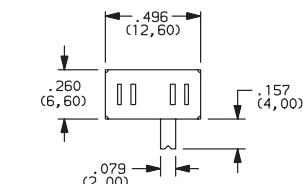
The schematic diagram illustrates a 3-position switch. It features a common terminal 'C' at the top, which is connected to terminal 1. Terminal 2 is connected to terminal 3, and terminal 3 is connected to terminal 4. The switch is shown in a closed state, with a black bar indicating the connection between terminals 2 and 3.

SP3T

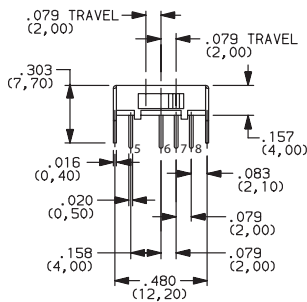
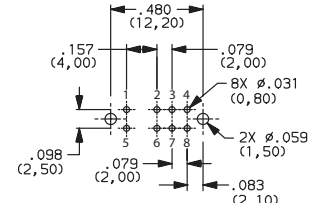
CONTACT RATING: 0.1A @ 12 VDC



OS203011MA2QP1  
DP3T



PC MOUNTING



Actuator shown in pos. 3

| PART NUMBER                       |                |                 | SWITCH FUNCTION |          |          |
|-----------------------------------|----------------|-----------------|-----------------|----------|----------|
|                                   | ROHS Compliant | ROHS Compatible | POS.1           | POS.2    | POS.3    |
| OS203011MA2QP1<br>(Non-specified) | YES            | NO              |                 |          |          |
| CONN. TERMINALS                   |                |                 | 1-2, 5-6        | 2-3, 6-7 | 2-4, 6-8 |
| SCHEMATIC                         |                |                 |                 |          |          |
| DP3T                              |                |                 |                 |          |          |

CONTACT RATING: 0.1A @ 12 VDC



Third Angle  
Projection

Dimensions are shown: Inch (mm)

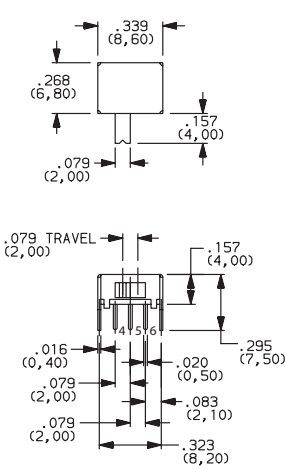
Specifications and dimensions subject to change

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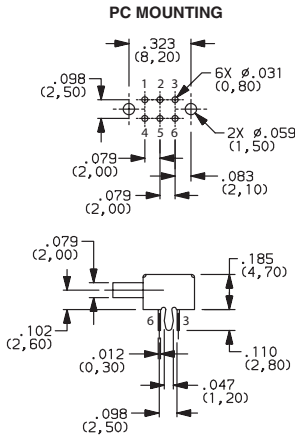
# OS Series Miniature Slide Switches

| PART NUMBER                      | RoHS<br>Compliant | RoHS<br>Compatible | SWITCH FUNCTION |          |
|----------------------------------|-------------------|--------------------|-----------------|----------|
|                                  |                   |                    | POS.1           | POS.2    |
| OS202011MA0QN1<br>(Non-shorting) | YES               | NO                 | ON              | ON       |
| OS202011MA0QS1<br>(Shorting)     | YES               | NO                 | ON              | ON       |
| CONN. TERMINALS                  |                   |                    | 1-2, 4-5        | 2-3, 5-6 |
| SCHEMATIC <div> </div>           |                   |                    |                 |          |
| DPDT <div> </div>                |                   |                    |                 |          |

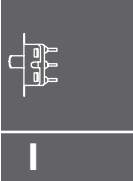
CONTACT RATING: 0.1A @ 12 VDC



Actuator shown in pos. 1



OS202011MA0QN1  
DPDT



Slide



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change