

# 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

## 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 m Ω or less.  
 INSULATION RESISTANCE: 100 M Ω min. at 500 VDC.  
 DIELECTRIC STRENGTH: 500 VAC for 1 minute.  
 OPERATING TEMPERATURE: -10°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.

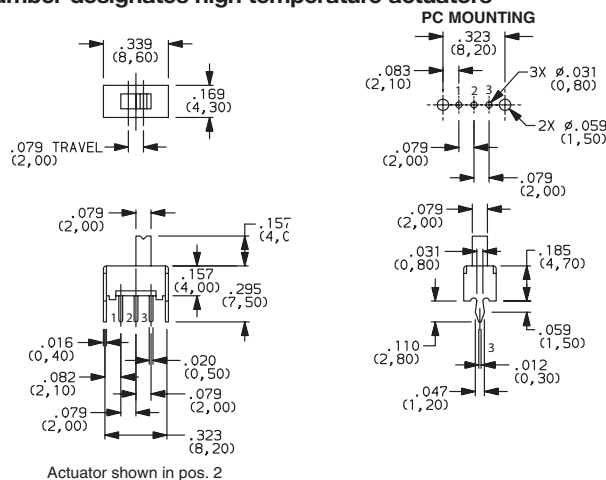
## How To Order

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                                |                |                 |                 |       |
|  |                |                 |                 |       |
| SPDT                                     |                |                 |                 |       |

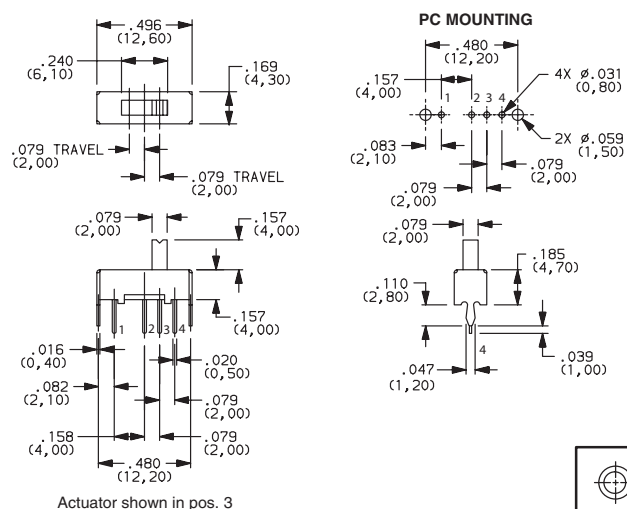
CONTACT RATING: 0.1A @ 12 VDC



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                                 |                |                 |       |                 |       |  |
|   |                |                 |       |                 |       |  |
| SP3T                                      |                |                 |       |                 |       |  |

CONTACT RATING: 0.1A @ 12 VDC



OS103011MS8QP1  
SP3T



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



Slide

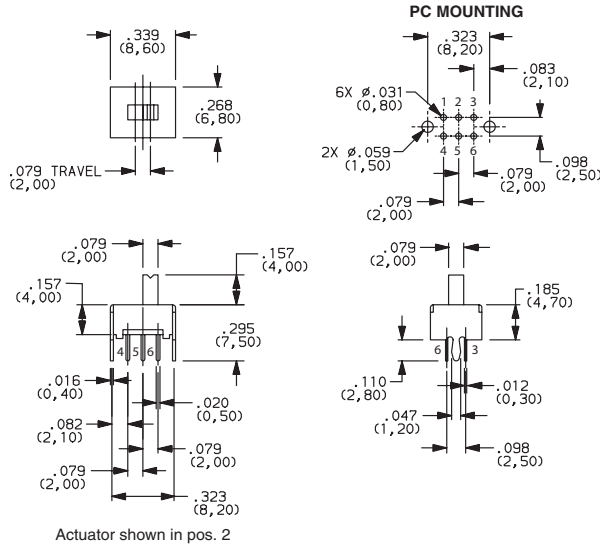
# OS Series Miniature Slide Switches



Slide



OS202011MS2QS1  
DPDT

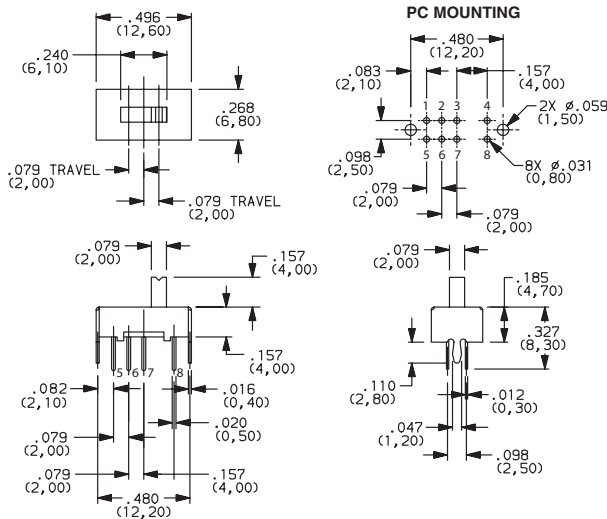


| PART NUMBER                   | SWITCH FUNCTION |          |
|-------------------------------|-----------------|----------|
|                               | POS.1           | POS.2    |
| OS202011MS2QS1 (Shorting)     | ON              | ON       |
| OS202011MS2QN1 (Non-shorting) | ON              | ON       |
| CONN. TERMINALS               | 1-2, 4-5        | 2-3, 5-6 |
| SCHEMATIC                     |                 |          |
|                               |                 |          |
| DPDT                          |                 |          |

CONTACT RATING: 0.1A @ 12 VDC



OS203011MS1QP1  
DP3T

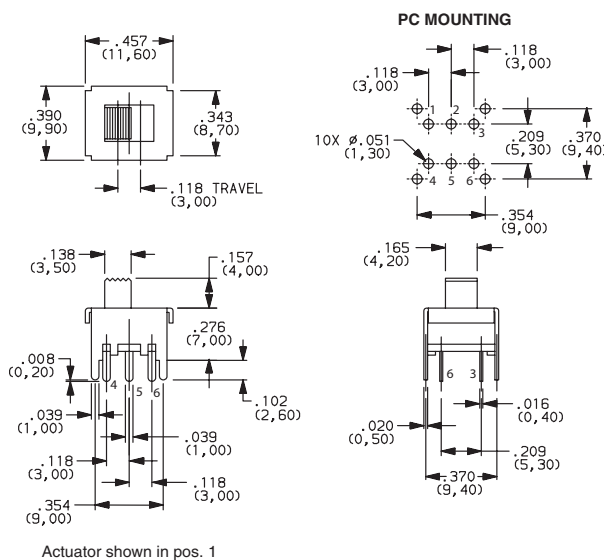


| PART NUMBER                    | SWITCH FUNCTION |          |          |
|--------------------------------|-----------------|----------|----------|
|                                | POS.1           | POS.2    | POS.3    |
| OS203011MS1QP1 (Non-specified) | ON              | ON       | ON       |
| CONN. TERMINALS                | 1-3, 5-7        | 2-3, 6-7 | 3-4, 7-8 |
| SCHEMATIC                      |                 |          |          |
|                                |                 |          |          |
| DP3T                           |                 |          |          |

CONTACT RATING: 0.3A @ 30 VDC



OS202013MT5QN1  
DPDT



| PART NUMBER                   | SWITCH FUNCTION |          |
|-------------------------------|-----------------|----------|
|                               | POS.1           | POS.2    |
| OS202013MT5QN1 (Non-shorting) | ON              | ON       |
| CONN. TERMINALS               | 1-2, 4-5        | 2-3, 5-6 |
| SCHEMATIC                     |                 |          |
|                               |                 |          |
| DPDT                          |                 |          |

CONTACT RATING: 0.3A @ 30 VDC



Third Angle Projection

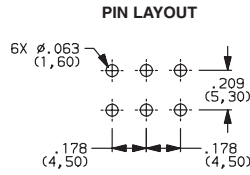
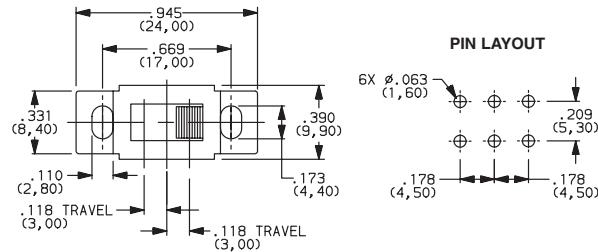
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



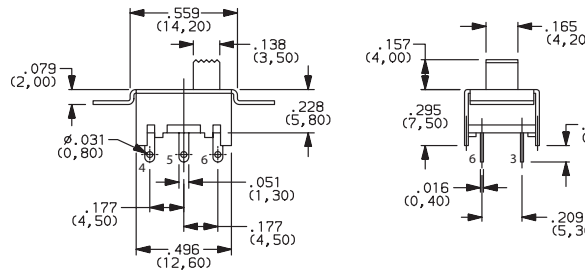
# OS Series Miniature Slide Switches

| PART NUMBER                             | ROHS      |            | SWITCH FUNCTION |       |          |
|---|-----------|------------|-----------------|-------|----------|
|   | Compliant | Compatible | POS.1           | POS.2 | POS.3    |
| <b>OS203013MT7QN1</b><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



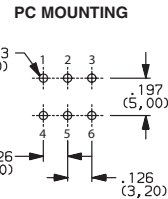
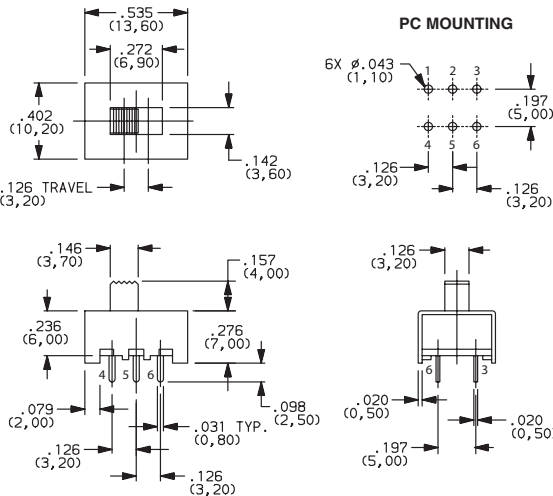
OS203013MT7QN1  
DP3T



Actuator shown in pos. 3

| PART NUMBER                             | ROHS      |            | SWITCH FUNCTION |          |
|---|-----------|------------|-----------------|----------|
|   | Compliant | Compatible | POS.1           | POS.2    |
| <b>OS202013MT8QN1</b><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

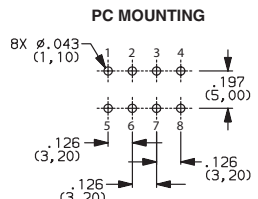
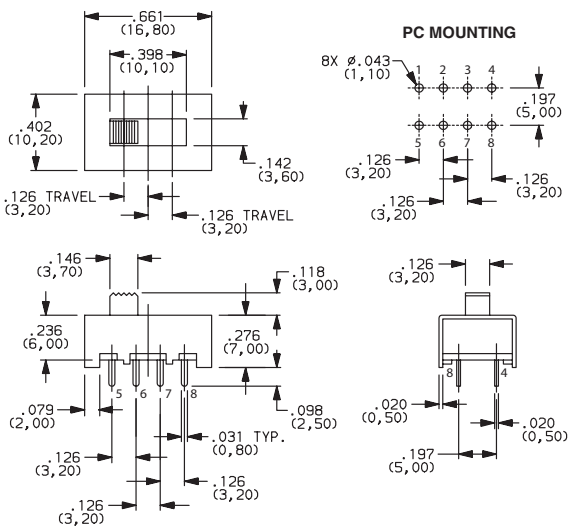


OS202013MT8QN1  
DPDT

Actuator shown in pos. 1

| PART NUMBER                             | ROHS      |            | SWITCH FUNCTION |          |          |
|---|-----------|------------|-----------------|----------|----------|
|   | Compliant | Compatible | POS.1           | POS.2    | POS.3    |
| <b>OS203013MT8QN1</b><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



OS203013MT8QN1  
DP3T

Actuator shown in pos. 1



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

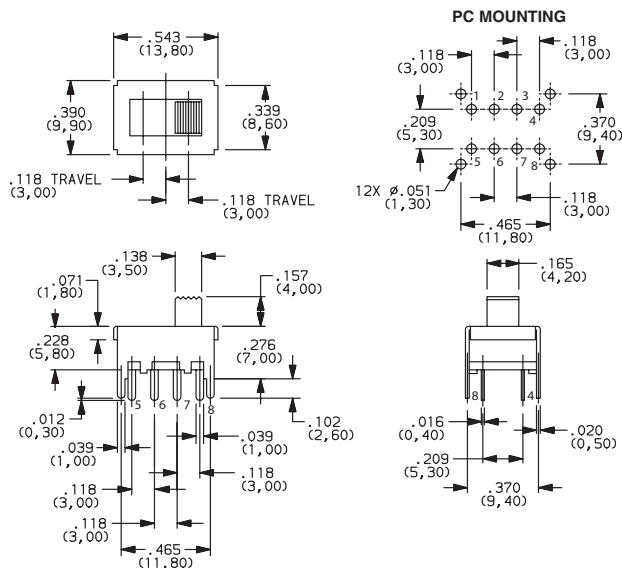


Slide

# OS Series Miniature Slide Switches



OS203013MT6QN1  
DP3T



| 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                             |                |                 |                 |          |          |

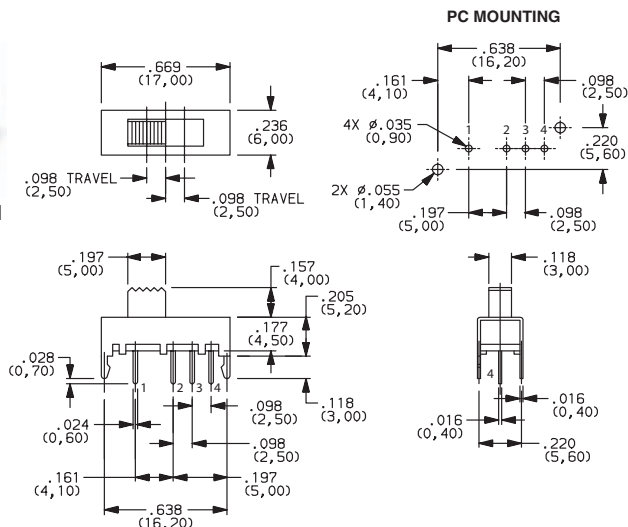
CONTACT RATING: 0.2A @ 30 VDC



Slide



OS103012MU1QP1  
SP3T

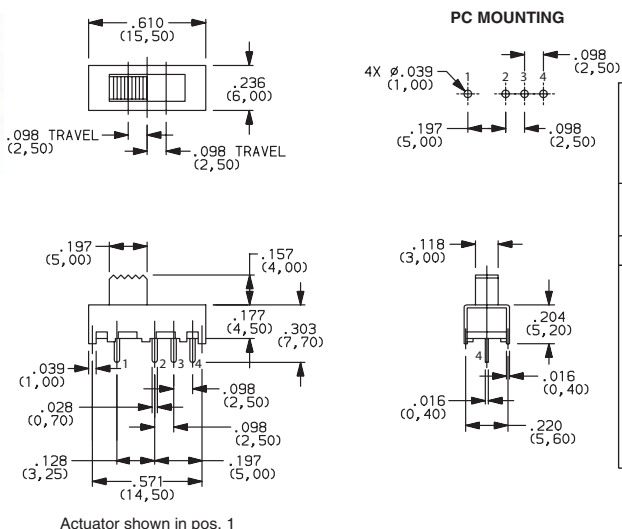


| PART NUMBER                      | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION |       |       |
|----------------------------------|----------------|-----------------|-----------------|-------|-------|
|                                  |                |                 | POS.1           | 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



OS103012MU2QP1  
SP3T



| 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



Third Angle Projection

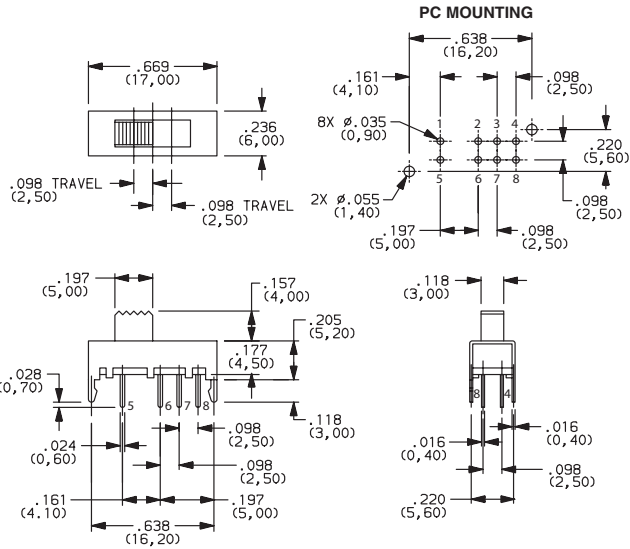
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



# 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                                |                |                 |                 |          |          |
|  |                |                 |                 |          |          |
| <b>DP3T</b>                              |                |                 |                 |          |          |

CONTACT RATING: 0.1A @ 30 VDC

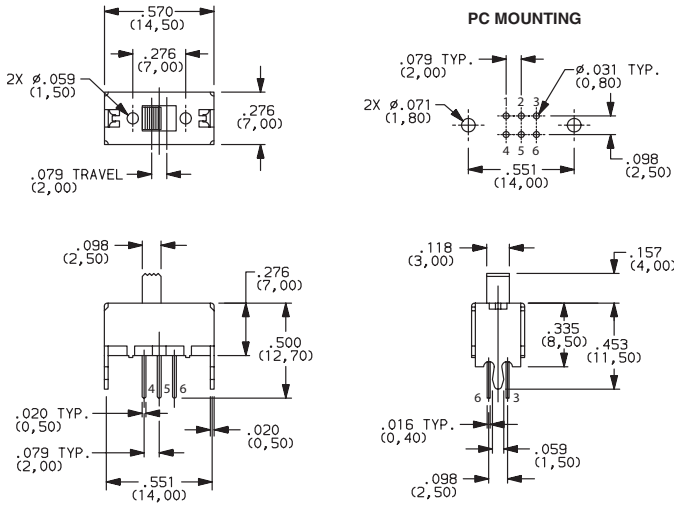


OS203012MU5QP1  
**DP3T**

Actuator shown in pos. 1

| 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                               |                |                 |                 |          |
|   |                |                 |                 |          |
| <b>DPDT</b>                             |                |                 |                 |          |

CONTACT RATING: 0.1A @ 30 VDC

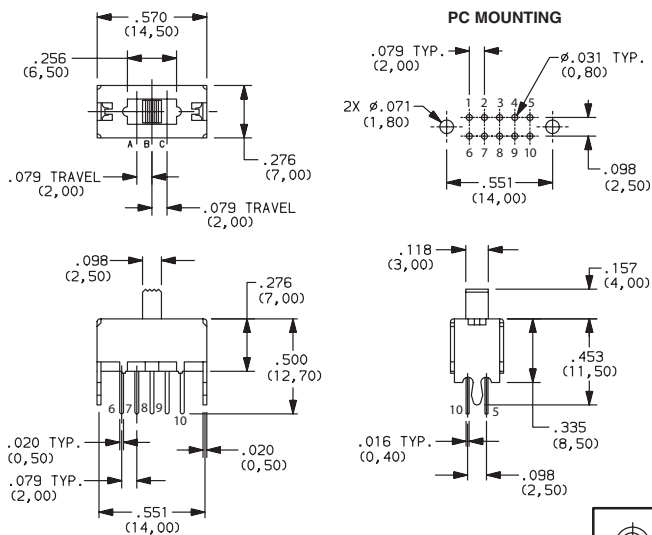


OS202011MV4QN1  
**DPDT**

Actuator shown in pos. 1

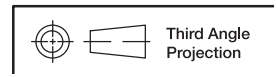
| PART NUMBER                             |                |                 | SWITCH FUNCTION |                 |                 |
|---|----------------|-----------------|-----------------|-----------------|-----------------|
|   | ROHS Compliant | ROHS Compatible | POS.1           | POS.2           | 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                               |                |                 |                 |                 |                 |
|   |                |                 |                 |                 |                 |
| <b>DP3T</b>                             |                |                 |                 |                 |                 |

CONTACT RATING: 0.1A @ 30 VDC



OS203011MV9QS1  
**DP3T**

Actuator shown in pos. 2(A)



Third Angle  
Projection

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



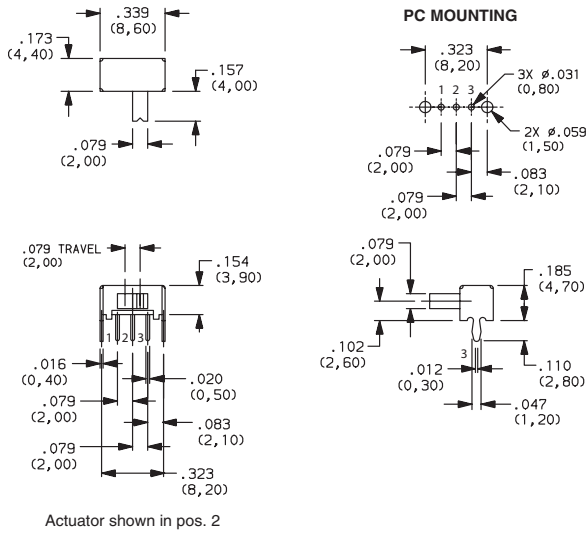
Slide

# OS Series Miniature Slide Switches

Slide



OS102011MA1QN1  
SPDT

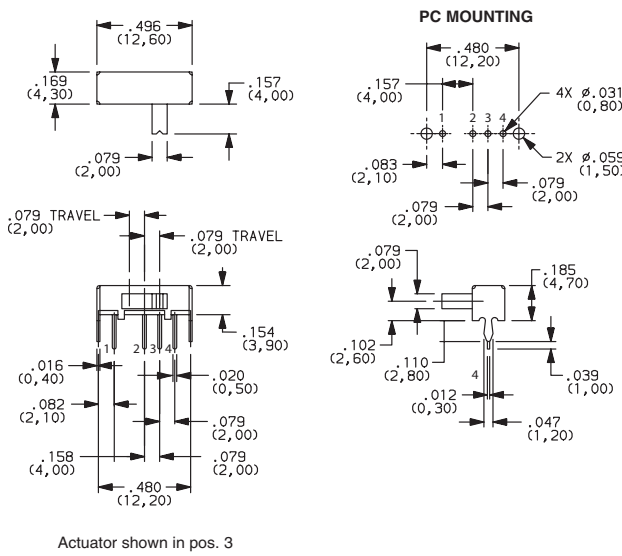


| PART NUMBER                              | RoHS      |            | SWITCH FUNCTION |       |
|--|-----------|------------|-----------------|-------|
|  | Compliant | Compatible | POS.1           | POS.2 |
| <b>OS102011MA1QN1</b><br>(Non-shorting)  | YES       | NO         |                 |     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

CONTACT RATING: 0.1A @ 12 VDC



OS103011MA7QP1  
SP3T

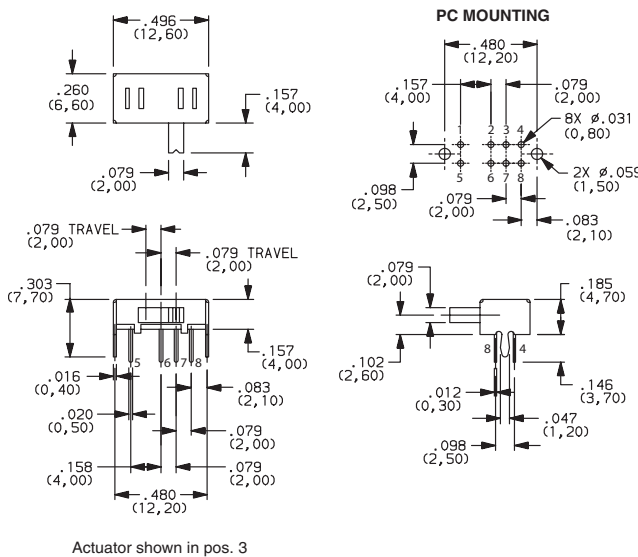


| PART NUMBER                               | RoHS      |            | SWITCH FUNCTION |       |       |
|---|-----------|------------|-----------------|-------|-------|
|   | Compliant | Compatible | POS.1           | POS.2 | POS.3 |
| <b>OS103011MA7QP1</b><br>(Non-specified)  | YES       | NO         |                 |       |       |
| <b>OS103011MA7QP1C</b><br>(Non-specified) | YES       | YES        |                 |       |       |
| <b>CONN. TERMINALS</b>                    |           |            | 1-2             | 2-3   | 2-4   |
| <b>SCHEMATIC</b>                          |           |            |                 |       |       |
|   |           |            |                 |       |       |
| <b>SP3T</b>                               |           |            |                 |       |       |

CONTACT RATING: 0.1A @ 12 VDC

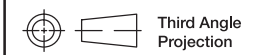


OS203011MA2QP1  
DP3T



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

CONTACT RATING: 0.1A @ 12 VDC



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

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