



**THE DATASHEET OF
OS103011MA7QP1**



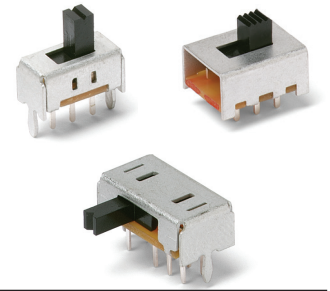
OS Series Miniature Slide Switches

Features/Benefits

- Variety of actuators & terminations
- PC and panel mounting
- 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 m Ω or less.
 INSULATION RESISTANCE: 100 M Ω 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: Standard: POM, Black.
 High Temperature Option: PA46, Black.
 HOUSING: SPCC Sn plated.
 MOVABLE CONTACT: Copper alloy, silver plated.
 STATIONARY CONTACTS: Brass, silver plated.
 TERMINALS: Brass, silver plated.
 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

Part number list is shown below. For individual part details, please refer to the following pages.

| Part Number (Part Description) | Product Details |
|-----------------------------------|--|
| OS102011MS2QN1 | SPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting |
| OS102011MS2QN1C | SPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting, High temperature resin |
| OS102011MS2QS1 | SPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Shorting |
| OS102011MS2QS1C | SPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, shorting, High temperature resin |
| OS103011MS8QP1 | SP3T, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=3.8mm, Not specified |
| OS103011MS8QP1C | SP3T, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=3.8mm, Not specified, High temperature resin |
| OS202011MS2QS1 | DPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Shorting |
| OS202011MS2QN1 | DPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting |
| OS203011MS1QP1 | DP3T, 2mm travel, Vertical, PC Thru-hole, Frame H=4.7mm, Tail L=3.6mm, Not specified |
| OS202013MT5QN1 | DPDT, 3mm travel, Vertical, PC Thru-hole, Frame H=7.0mm, Tail L=2.8mm, Non shorting |
| OS203013MT7QN1 | DP3T, 3mm travel, Vertical, PC Thru-hole, Frame H=7.5mm, Tail L=2.2mm, Non shorting |
| OS202013MT8QN1 | DPDT, 3.2mm travel, Vertical, PC Thru-hole, Frame H=7.0mm, Tail L=2.5mm, Non shorting |
| OS203013MT8QN1 | DP3T, 3.2mm travel, Vertical, PC Thru-hole, Frame H=7.0mm, Tail L=2.5mm, Non shorting |
| OS203013MT6QN1 | DP3T, 3mm travel, Vertical, PC Thru-hole, Frame H=7.0mm, Tail L=2.9mm, Non shorting |
| OS103012MU1QP1 | SP3T, 2.5mm travel, Vertical, PC Thru-hole, Frame H=5.2mm, Tail L=3.7mm, Not specified |
| OS103012MU2QP1 | SP3T, 2.5mm travel, Vertical, PC Thru-hole, Frame H=5.2mm, Tail L=2.5mm, Not specified |
| OS203012MU5QP1 | DP3T, 2.5mm travel, Vertical, PC Thru-hole, Frame H=5.2mm, Tail L=3.7mm, Not specified |
| OS202011MV4QN1 | DPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=8.5mm, Tail L=4.2mm, Non shorting |



Third Angle
Projection

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

OS Series Miniature Slide Switches



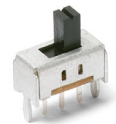
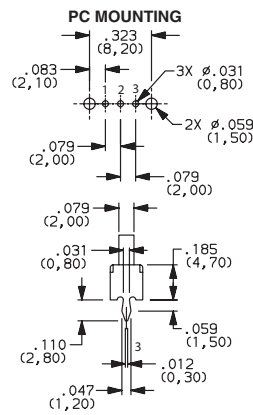
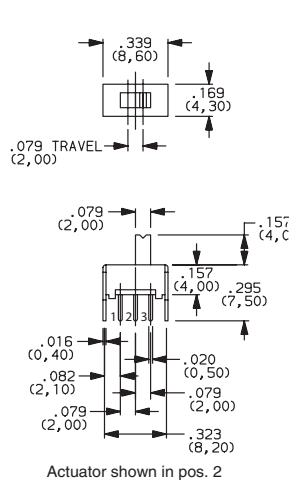
Slide

| Part Number (Part Description) | Product Details |
|-----------------------------------|---|
| OS202011MV4QS1 | DPDT, 2mm travel, Vertical, PC Thru-hole, Frame H=8.5mm, Tail L=4.2mm, shorting |
| OS203011MV9QS1 | DP3T, 2mm travel, Vertical, PC Thru-hole, Frame H=8.5mm, Tail L=4.2mm, shorting |
| OS203011MV9QN1 | DP3T, 2mm travel, Vertical, PC Thru-hole, Frame H=8.5mm, Tail L=4.2mm, Non shorting |
| OS102011MA1QN1 | SPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting |
| OS102011MA1QN1C | SPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting, High temperature resin |
| OS102011MA1QS1 | SPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, shorting |
| OS102011MA1QS1C | SPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, shorting, High temperature resin |
| OS103011MA7QP1 | SP3T, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=3.8mm, Not specified |
| OS103011MA7QP1C | SP3T, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=3.8mm, Not specified, High temperature resin |
| OS203011MA2QP1 | DP3T, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=3.7mm, Not specified |
| OS202011MA0QN1 | DPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, Non shorting |
| OS202011MA0QS1 | DPDT, 2mm travel, Right angle, PC Thru-hole, Frame H=4.7mm, Tail L=2.8mm, shorting |

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

CONTACT RATING: 0.1A @ 12 VDC

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

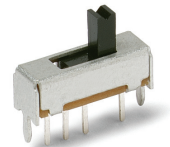
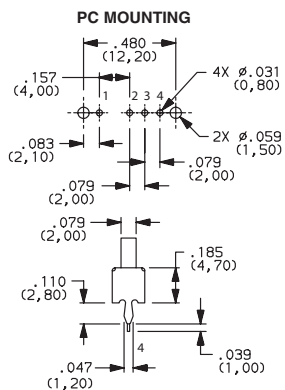
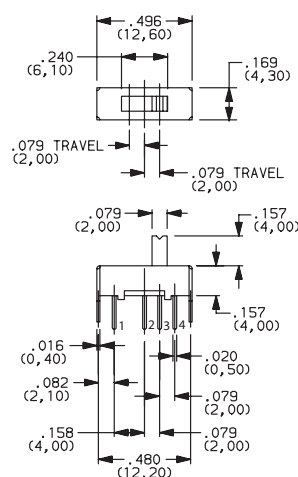


OS102011MS2QN1
SPDT

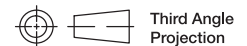
| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|--|----------------|-----------------|-----------------|-------|-------|
| | | | POS.1 | POS.2 | POS.3 |
| OS103011MS8QP1 (Non-specified) | YES | NO | | | |
| OS103011MS8QP1C* (Non-specified) | YES | YES | | | |
| CONN. TERMINALS | | | 1-2 | 2-3 | 2-4 |
| SCHEMATIC | | | | | |
| | | | | | |
| SP3T | | | | | |

CONTACT RATING: 0.1A @ 12 VDC

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



OS103011MS8QP1
SP3T

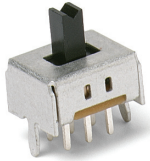


Third Angle Projection

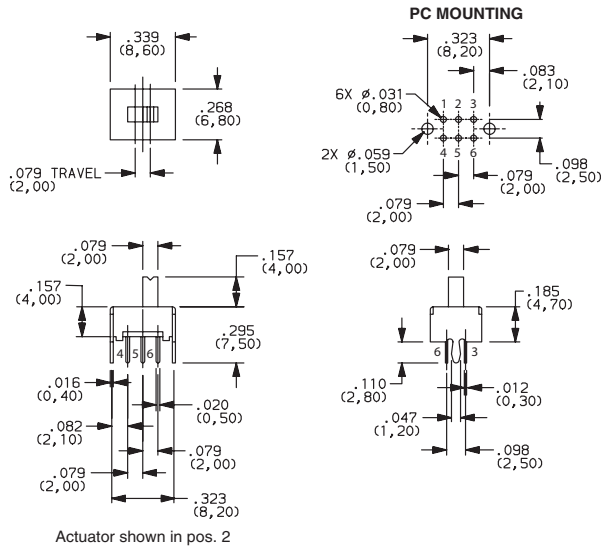
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



OS Series Miniature Slide Switches

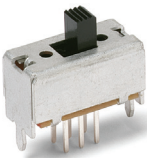


OS202011MS2QS1
DPDT

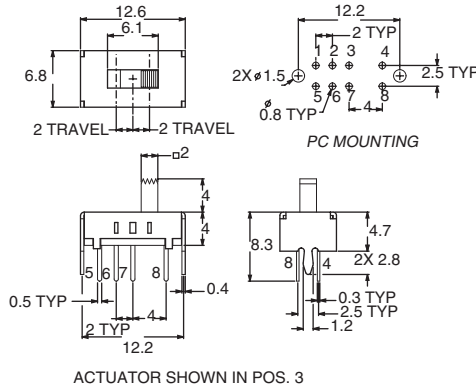


| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | |
|-------------------------------|----------------|-----------------|-----------------|----------|
| | | | POS.1 | POS.2 |
| OS202011MS2QS1 (Shorting) | YES | NO | ON | ON |
| OS202011MS2QN1 (Non-shorting) | YES | NO | ON | ON |
| CONN. TERMINALS | | | 1-2, 4-5 | 2-3, 5-6 |
| SCHEMATIC | | | | |
| DPDT | | | | |

CONTACT RATING: 0.1A @ 12 VDC

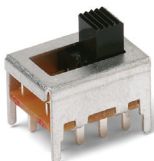


OS203011MS1QP1
DP3T

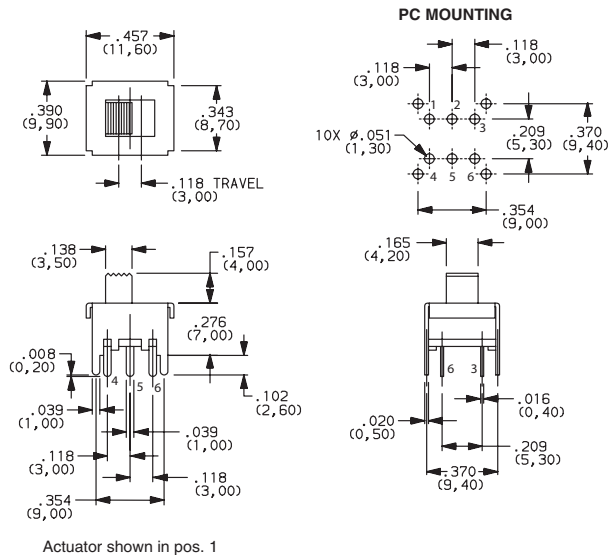


| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|--------------------------------|----------------|-----------------|-----------------|----------|----------|
| | | | POS.1 | POS.2 | POS.3 |
| OS203011MS1QP1 (Non-specified) | YES | NO | ON | ON | ON |
| CONN. TERMINALS | | | 1-3, 5-7 | 2-3, 6-7 | 3-4, 7-8 |
| SCHEMATIC | | | | | |
| DP3T | | | | | |

CONTACT RATING: 0.3A @ 30 VDC



OS202013MT5QN1
DPDT



| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | |
|-------------------------------|----------------|-----------------|-----------------|----------|
| | | | POS.1 | POS.2 |
| OS202013MT5QN1 (Non-shorting) | YES | NO | ON | ON |
| CONN. TERMINALS | | | 1-2, 4-5 | 2-3, 5-6 |
| SCHEMATIC | | | | |
| DPDT | | | | |

CONTACT RATING: 0.3A @ 30 VDC



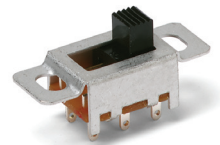
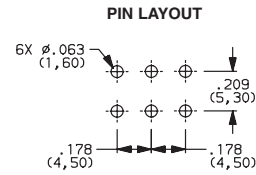
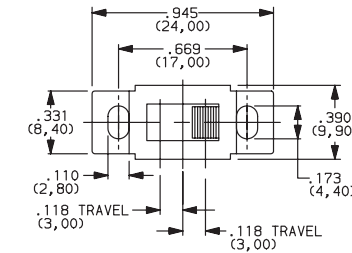
Third Angle Projection

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

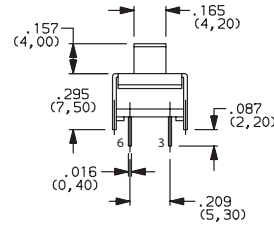
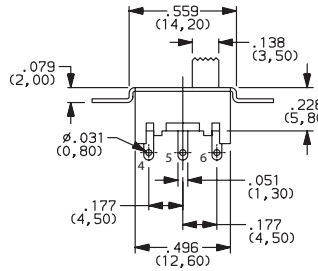
OS Series Miniature Slide Switches

| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|-------|----------|
| | | | POS.1 | POS.2 | POS.3 |
| OS203013MT7QN1 (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



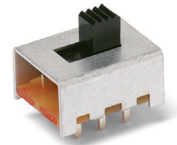
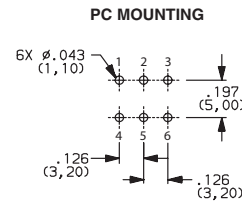
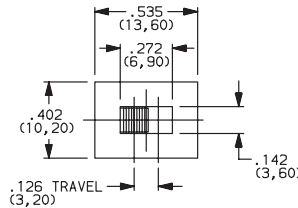
Actuator shown in pos. 3



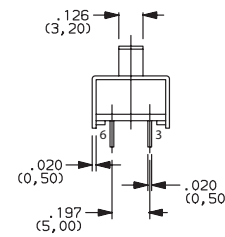
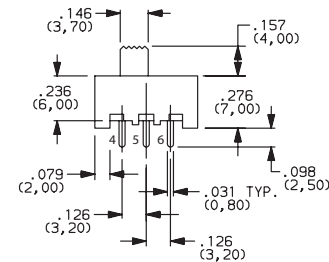
Slide

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

CONTACT RATING: 0.3A @ 30 VDC



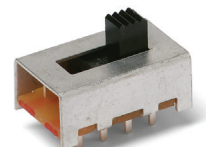
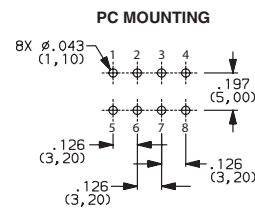
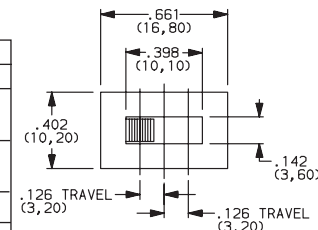
OS202013MT8QN1
DPDT



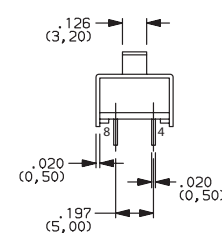
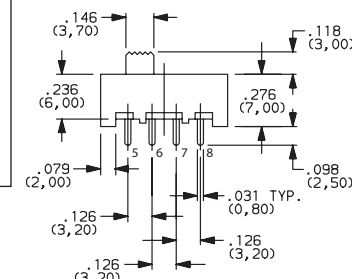
Actuator shown in pos. 1

| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|----------|----------|
| | | | POS.1 | POS.2 | POS.3 |
| OS203013MT8QN1 (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

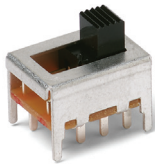


Third Angle Projection
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

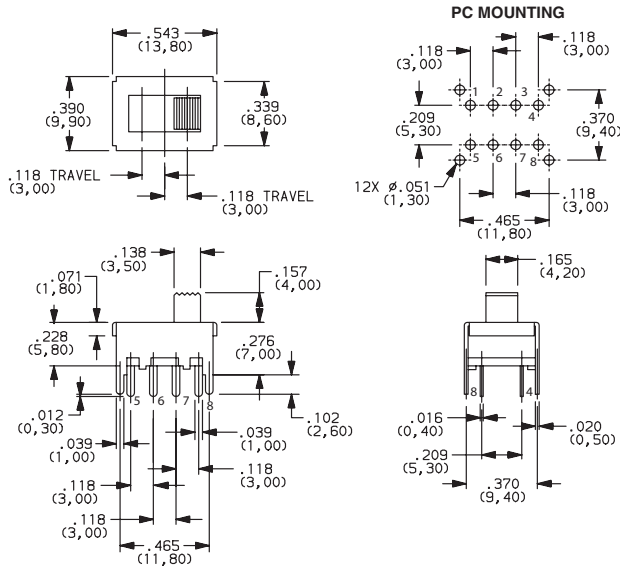


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OS Series Miniature Slide Switches

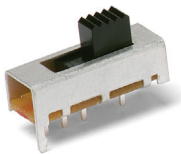


OS203013MT6QN1
DP3T

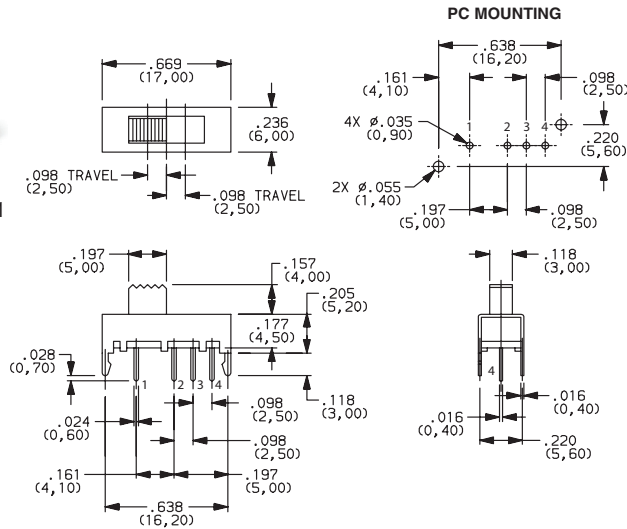


| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|----------|----------|
| | | | POS.1 | POS.2 | POS.3 |
| OS203013MT6QN1 (Non-shorting) | YES | NO | ON | ON | ON |
| CONN. TERMINALS | | | 1-2, 5-6 | 2-3, 6-7 | 3-4, 7-8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

CONTACT RATING: 0.2A @ 30 VDC

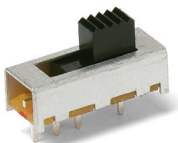


OS103012MU1QP1
SP3T

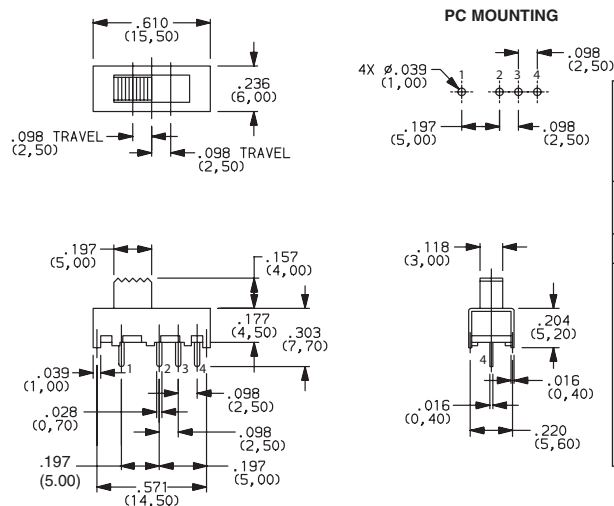


| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|-------|-------|
| | | | POS.1 | POS.2 | POS.3 |
| OS103012MU1QP1 (Non-shorting) | YES | NO | ON | ON | ON |
| CONN. TERMINALS | | | 1-2 | 2-3 | 2-4 |
| SCHEMATIC | | | |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

CONTACT RATING: 0.2A @ 30 VDC



OS103012MU2QP1
SP3T



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

CONTACT RATING: 0.2A @ 30 VDC



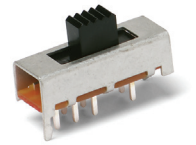
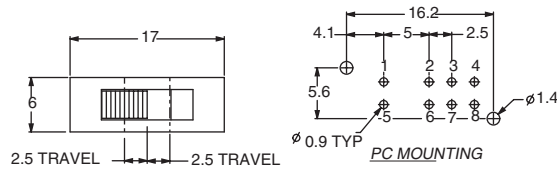
Third Angle Projection

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

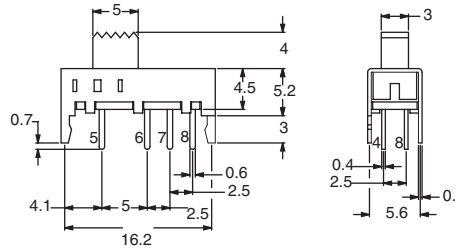
OS Series Miniature Slide Switches

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

CONTACT RATING: 0.1A @ 30 VDC



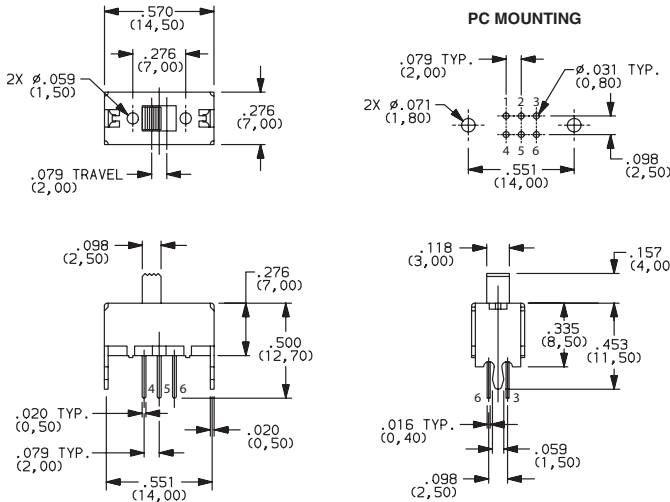
OS203012MU5QP1
DP3T



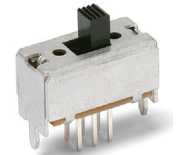
ACTUATOR SHOWN IN POS. 1

| PART NUMBER | ROHS | | SWITCH FUNCTION | |
|---|-----------|------------|-----------------|----------|
| | Compliant | Compatible | POS.1 | POS.2 |
| OS202011MV4QN1 (Non-shorting) | YES | NO | | |
| OS202011MV4QS1 (Shorting) | YES | NO | | |
| CONN. TERMINALS | | | 1-2, 4-5 | 2-3, 5-6 |
| SCHEMATIC | | | | |
| | | | | |
| DPDT | | | | |

CONTACT RATING: 0.1A @ 30 VDC



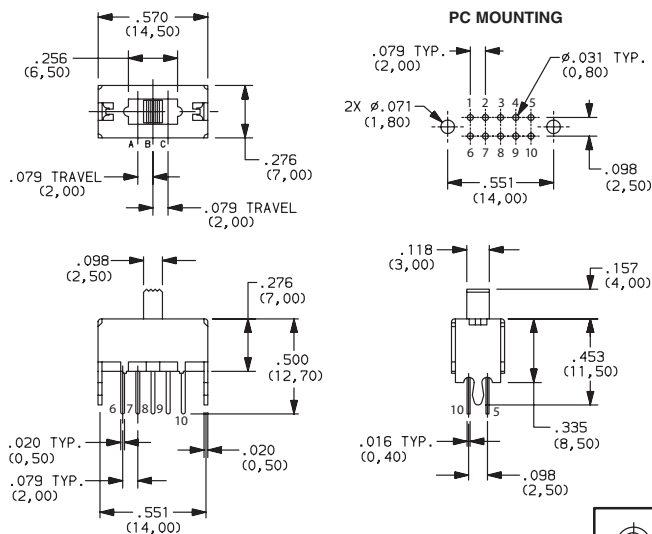
Actuator shown in pos. 1



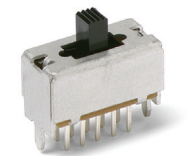
OS202011MV4QN1
DPDT

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

CONTACT RATING: 0.1A @ 30 VDC



Actuator shown in pos. 2(A)



OS203011MV9QS1
DP3T



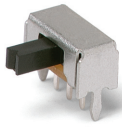
Third Angle Projection

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



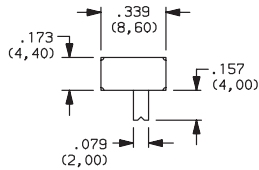
15 Mar 22

OS Series Miniature Slide Switches

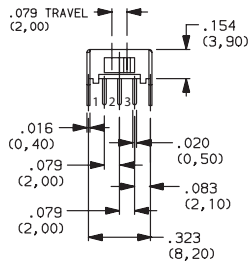
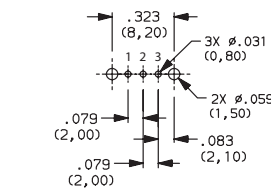


OS102011MA1QN1

SPDT



PC MOUNTING



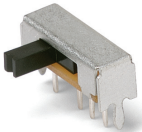
Actuator shown in pos. 2

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

CONTACT RATING: 0.1A @ 12 VDC

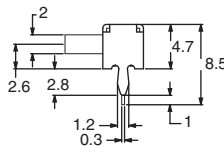
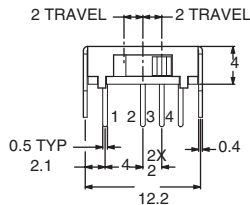
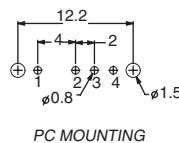
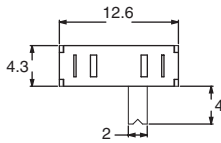
* "C" option at the end of part number designates high temperature actuators

Slide



OS103011MA7QP1

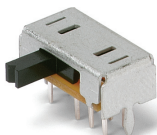
SP3T



| PART NUMBER | ROHS Compliant | ROHS Compatible | SWITCH FUNCTION | | |
|--|----------------|-----------------|-----------------|-------|-------|
| | | | POS.1 | POS.2 | POS.3 |
| OS103011MA7QP1 (Non-specified) | YES | NO | ON | ON | ON |
| OS103011MA7QP1C* (Non-specified) | YES | YES | ON | ON | ON |
| CONN. TERMINALS | | | 1-2 | 2-3 | 2-4 |
| SCHEMATIC | | | | | |
| | | | | | |
| SP3T | | | | | |

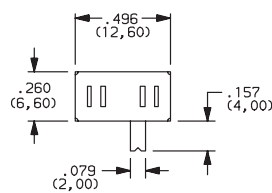
CONTACT RATING: 0.1A @ 12 VDC

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

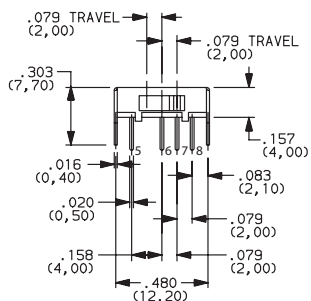
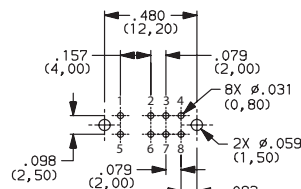


OS203011MA2QP1

DP3T



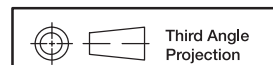
PC MOUNTING



Actuator shown in pos. 3

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

CONTACT RATING: 0.1A @ 12 VDC



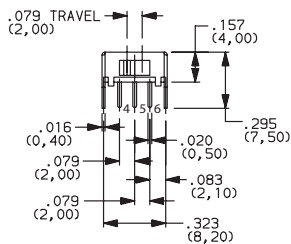
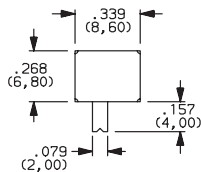
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



OS Series Miniature Slide Switches

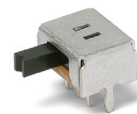
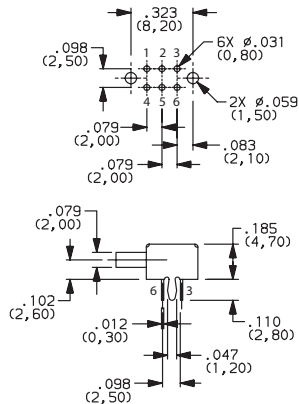
| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | |
|---|----------------|-----------------|-----------------|----------|
| | | | POS.1 | POS.2 |
| OS202011MA0QN1 (Non-shorting) | YES | NO | ON | ON |
| OS202011MA0QS1 (Shorting) | YES | NO | ON | ON |
| CONN. TERMINALS | | | 1-2, 4-5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

CONTACT RATING: 0.1A @ 12 VDC

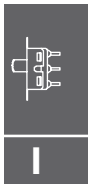


Actuator shown in pos. 1

PC MOUNTING



OS202011MA0QN1
DPDT



Slide

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- ⊖ [C&K Components Information](#)

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