

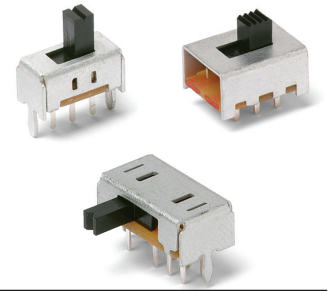
OS Series Miniature Slide Switches

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

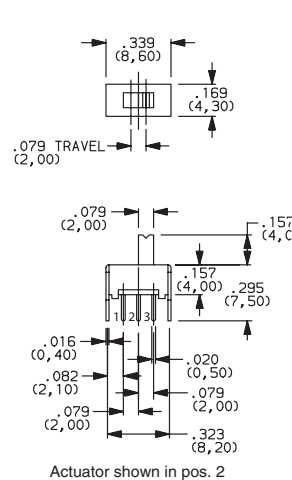
OS Series Miniature Slide Switches

| 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 |

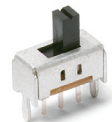
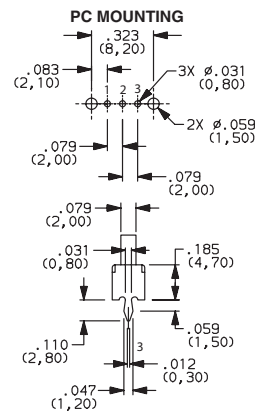
| PART NUMBER | | | SWITCH FUNCTION | |
|------------------------------------|----------------|-----------------|-----------------|-------|
| | RoHS Compliant | RoHS Compatible | POS.1 | POS.2 |
| OS102011MS2QN1 (non-shorting) | YES | NO | ON | ON |
| OS102011MS2QN1C* (non-shorting) | YES | YES | ON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



Actuator shown in pos. 2

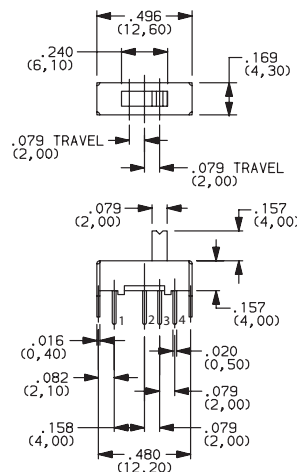


OS102011MS2QN1
SPDT

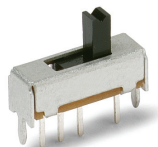
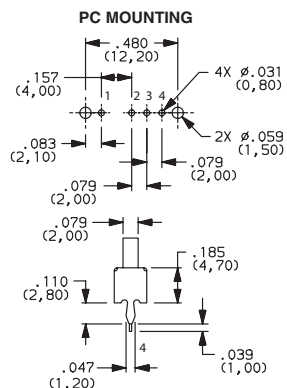
| PART NUMBER | | | SWITCH FUNCTION | | |
|-------------------------------------|----------------|-----------------|-----------------|-------|-------|
| | ROHS Compliant | ROHS Compatible | POS.1 | POS.2 | POS.3 |
| OS103011MS8QP1 (Non-specified) | YES | NO | ON | ON | ON |
| OS103011MS8QP1C* (Non-specified) | 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



Actuator shown in pos. 3



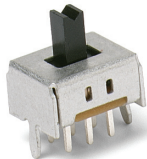
OS103011MS8QP1
SP3T



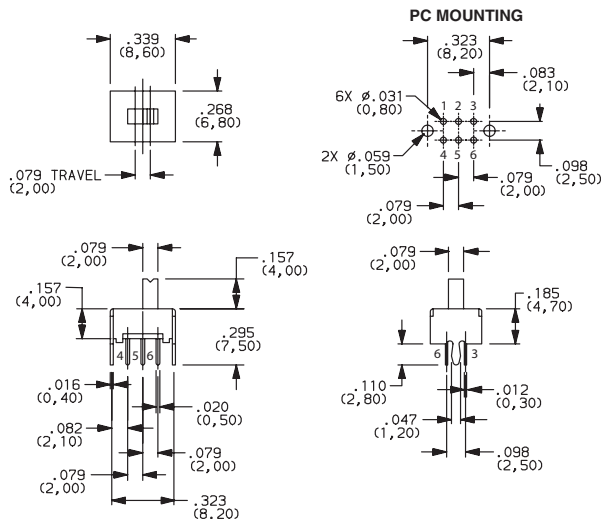
Third Angle
Projection




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

OS Series Miniature Slide Switches

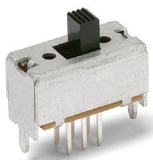


OS202011MS2QS1
DPDT

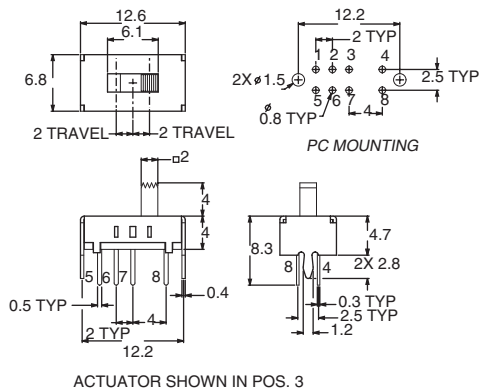





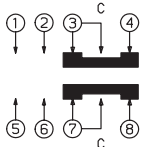
| PART NUMBER | | | SWITCH FUNCTION | |
|---|----------------|-----------------|---|---|
| | RoHS Compliant | RoHS Compatible | POS.1 | POS.2 |
| OS202011MS2QS1 (Shorting) | YES | NO |  |  |
| OS202011MS2QN1 (Non-shorting) | YES | NO | ON | ON |
| CONN. TERMINALS | | | 1-2, 4-5 | 2-3, 5-6 |
| SCHEMATIC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

CONTACT RATING: 0.1A @ 12 VDC

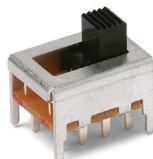


OS203011MS1QP1
DP3T

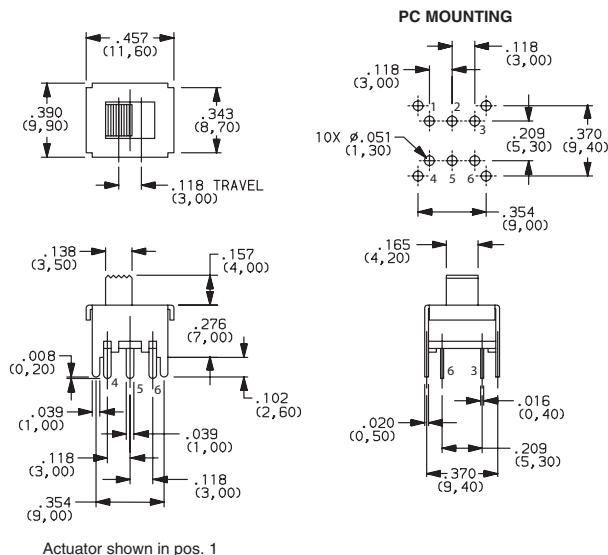





| PART NUMBER | | | SWITCH FUNCTION | | |
|---|-------------------|--------------------|---|---|---|
| | ROHS Compliant | ROHS Compatible | POS.1 | POS.2 | POS.3 |
| OS203011MS1QP1 (Non-specified) | YES | NO |  |  |  |
| CONN. TERMINALS | | | 1-3, 5-7 | 2-3, 6-7 | 3-4, 7-8 |
| SCHEMATIC | | | | | |
|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

CONTACT RATING: 0.3A @ 30 VDC

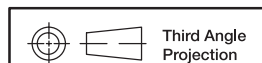


OS202013MT5QN1
DPDT



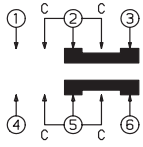
| PART NUMBER | | | SWITCH FUNCTION | |
|---|----------------|-----------------|---|---|
| | RoHS Compliant | RoHS Compatible | POS.1 | POS.2 |
| OS202013MT5QN1 (Non-shorting) | YES | NO |  |  |
| CONN. TERMINALS | | | 1-2, 4-5 | 2-3, 5-6 |
| SCHEMATIC | | | | |
|  | | | | |
| DPDT | | | | |

CONTACT RATING: 0.3A @ 30 VDC

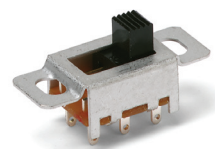
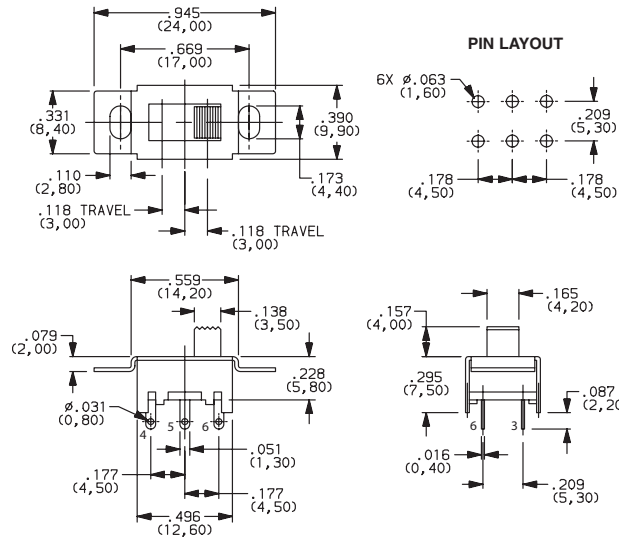


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

OS Series Miniature Slide Switches

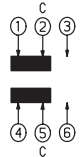
| PART NUMBER | | | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|-------|----------|
| | ROHS Compliant | ROHS Compatible | POS.1 | POS.2 | POS.3 |
| OS203013MT7QN1 (Non-shorting) | YES | NO | ON | OFF | ON |
| CONN. TERMINALS | | | 1-2, 4-5 | | 2-3, 5-6 |
| SCHEMATIC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

CONTACT RATING: 0.3A @ 30 VDC

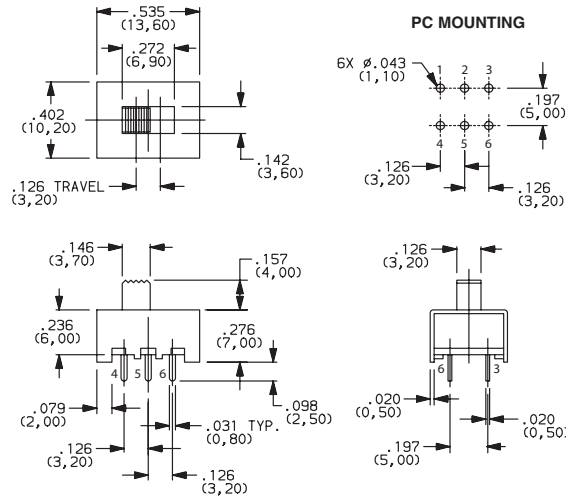


OS203013MT7QN1
DP3T

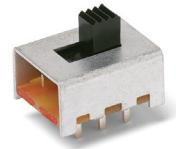
Slide

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

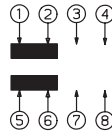
CONTACT RATING: 0.3A @ 30 VDC



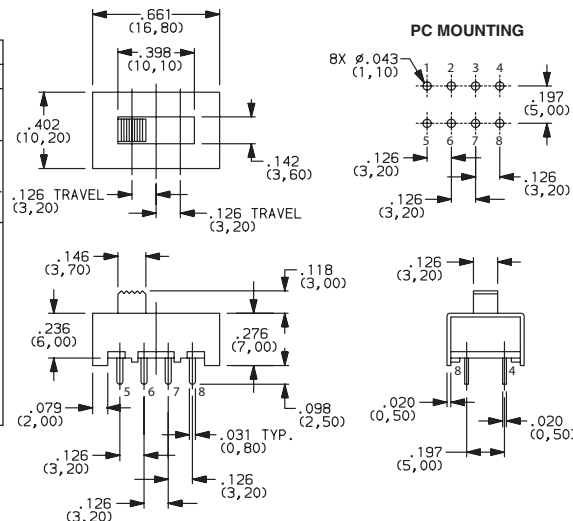
Actuator shown in pos. 1



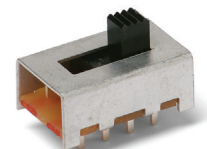
OS202013MT8QN1
DPDT

| PART NUMBER | | | SWITCH FUNCTION | | |
|---|----------------|-----------------|-----------------|----------|----------|
| | ROHS Compliant | ROHS Compatible | 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



Actuator shown in pos. 1



OS203013MT8QN1
DP3T



Third Angle
Projection

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

Slide



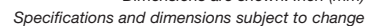
CONTACT RATING: 0.2A @ 30 VDC



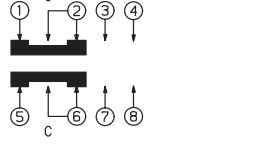
CONTACT RATING: 0.2A @ 30 VDC



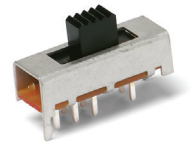
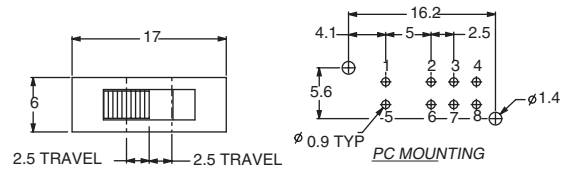
CONTACT RATING: 0.2A @ 30 VDC



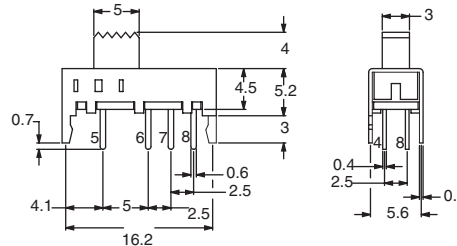
OS Series Miniature Slide Switches

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

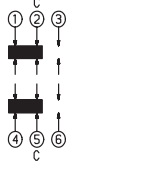
CONTACT RATING: 0.1A @ 30 VDC



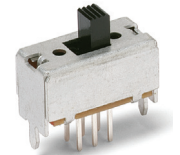
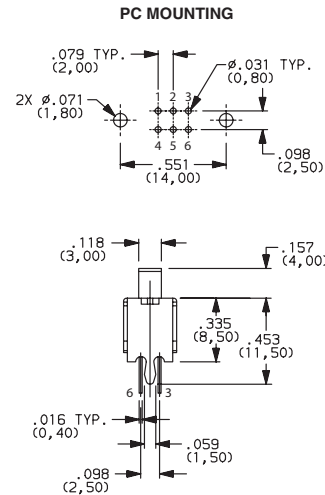
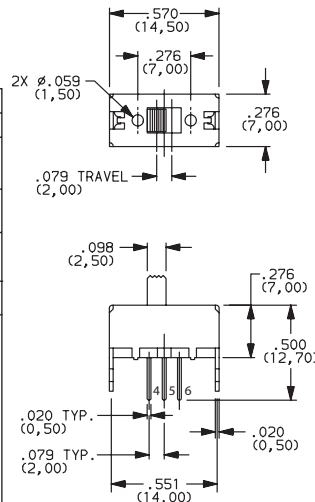
OS203012MU5QP1
DP3T



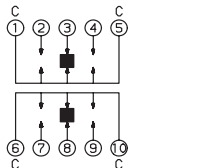
ACTUATOR SHOWN IN POS. 1

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

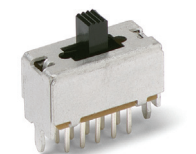
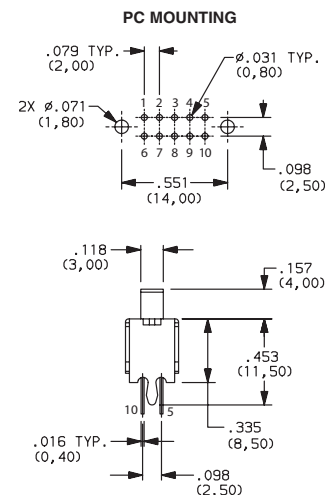
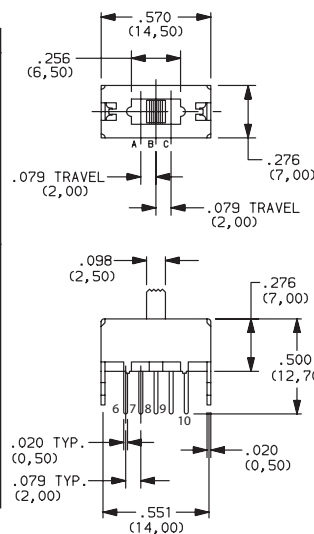
CONTACT RATING: 0.1A @ 30 VDC



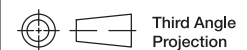
OS202011MV4QN1
DPDT

| PART NUMBER | | | SWITCH FUNCTION | | |
|--|----------------|-----------------|-----------------|-----------------|-----------------|
| | ROHS Compliant | ROHS Compatible | POS.1 | POS.2 | POS.3 |
| OS203011MV9QS1 (Shorting) | YES | NO | ON | ON | ON |
| OS203011MV9QN1 (Non-Shorting) | YES | NO | ON | ON | ON |
| 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



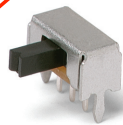
OS203011MV9QS1
DP3T



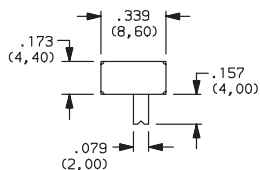
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

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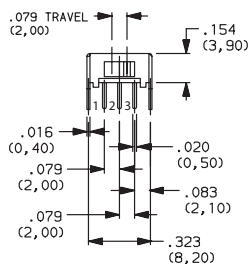
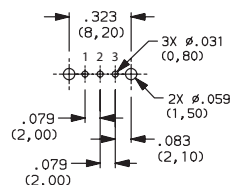
OS Series Miniature Slide Switches



OS102011MA1QN1
SPDT



PC MOUNTING

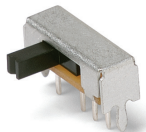


Actuator shown in pos. 2

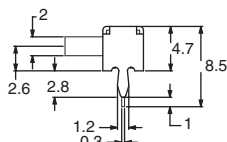
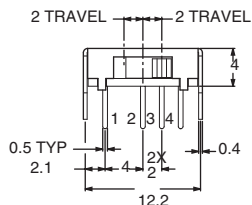
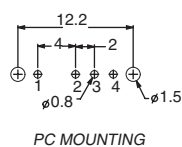
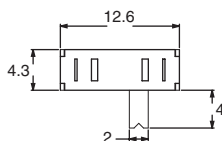
| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | |
|------------------------------------|-------------------|--------------------|-----------------|-------|
| | | | POS.1 | POS.2 |
| OS102011MA1QN1 (Non-shorting) | YES | NO | ON | ON |
| OS102011MA1QN1C* (Non-shorting) | YES | YES | 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



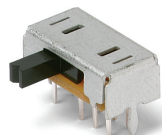
OS103011MA7QP1
SP3T



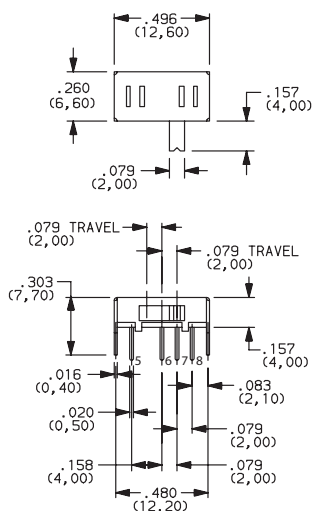
| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | | |
|-------------------------------------|-------------------|--------------------|-----------------|-------|-------|
| | | | POS.1 | POS.2 | POS.3 |
| OS103011MA7QP1 (Non-specified) | YES | NO | ON | ON | ON |
| OS103011MA7QP1C* (Non-specified)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

CONTACT RATING: 0.1A @ 12 VDC

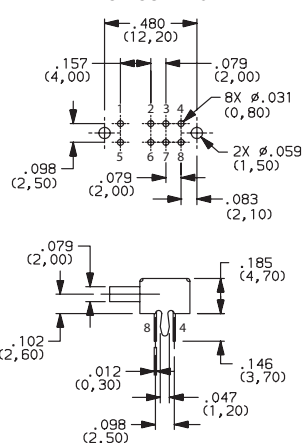
* "C" option at the end of part number designates high temperature actuators



OS203011MA2QP1
DP3T



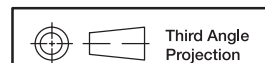
PC MOUNTING



| 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

Actuator shown in pos. 3



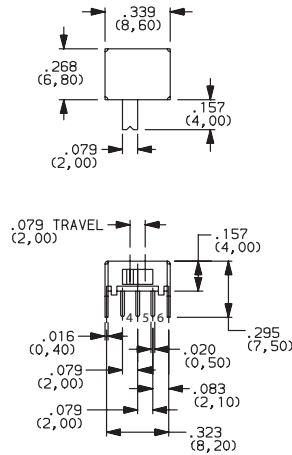
Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

OS Series Miniature Slide Switches

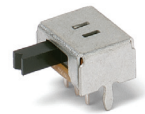
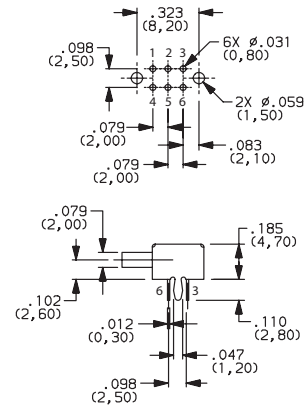
| PART NUMBER | RoHS Compliant | RoHS Compatible | SWITCH FUNCTION | |
|---|-------------------|--------------------|-----------------|----------|
| | | | POS.1 | POS.2 |
| OS202011MA0QN1 (Non-shorting) | YES | NO | ON | ON |
| OS202011MA0QS1 (Shorting) | YES | NO | ON | ON |
| CONN. TERMINALS | | | 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