

# 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 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: 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.

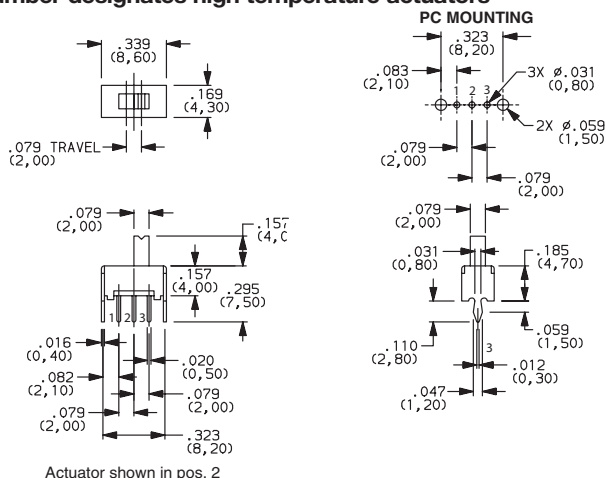
## How To Order

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> (non-shorting)	YES	NO	ON	ON
<b>OS102011MS2QN1C</b> (non-shorting)	YES	YES	ON	ON
<b>OS102011MS2QS1</b> (shorting)	YES	NO	ON	ON
<b>OS102011MS2QS1C</b> (shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC				
SPDT				

CONTACT RATING: 0.1A @ 12 VDC

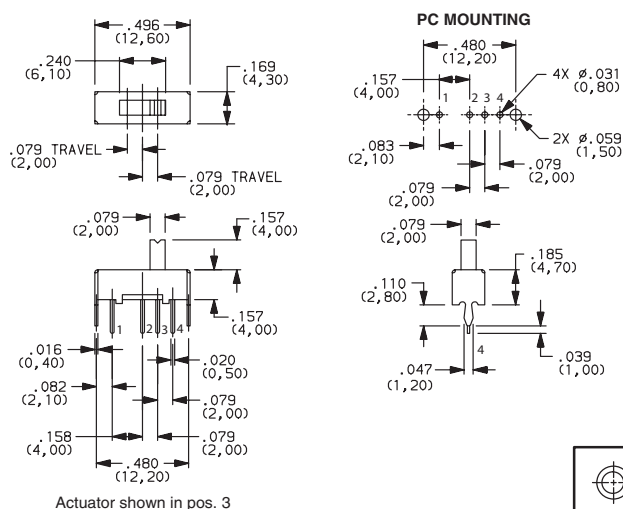


Actuator shown in pos. 2

OS102011MS2QN1  
SPDT

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

CONTACT RATING: 0.1A @ 12 VDC



Actuator shown in pos. 3

OS103011MS8QP1  
SP3T



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



Slide

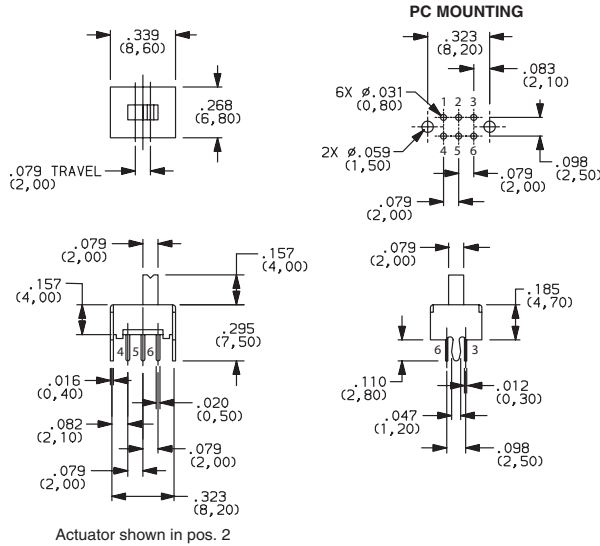
# OS Series Miniature Slide Switches



Slide



OS202011MS2QS1  
DPDT

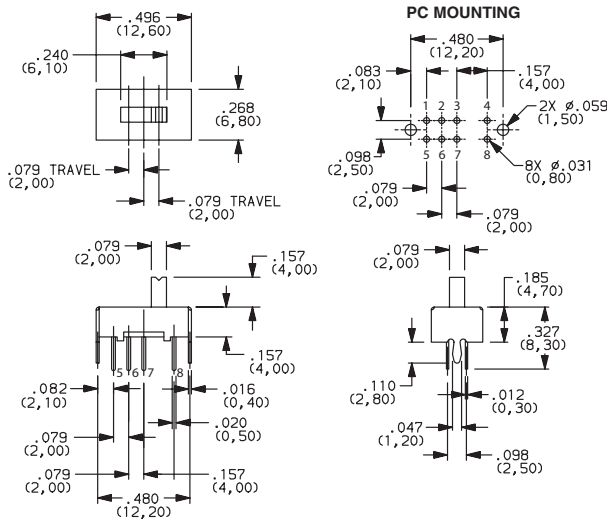


PART NUMBER	SWITCH FUNCTION	
	POS.1	POS.2
OS202011MS2QS1 (Shorting)	ON	ON
OS202011MS2QN1 (Non-shorting)	ON	ON
CONN. TERMINALS	1-2, 4-5	2-3, 5-6
SCHEMATIC		
DPDT		

CONTACT RATING: 0.1A @ 12 VDC



OS203011MS1QP1  
DP3T

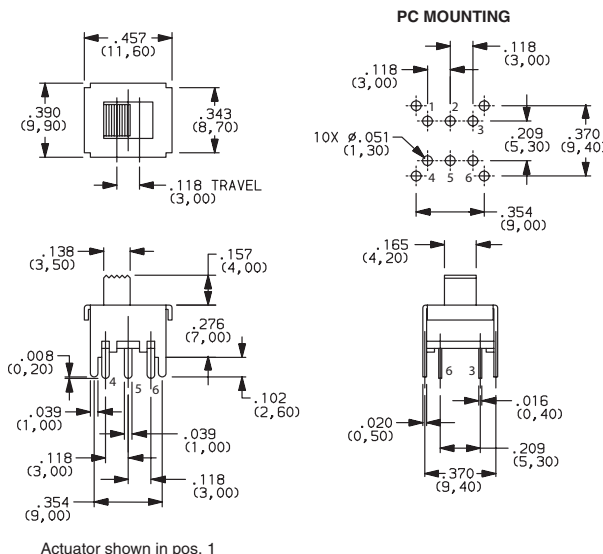


PART NUMBER	SWITCH FUNCTION		
	POS.1	POS.2	POS.3
OS203011MS1QP1 (Non-specified)	ON	ON	ON
CONN. TERMINALS	1-3, 5-7	2-3, 6-7	3-4, 7-8
SCHEMATIC			
DP3T			

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



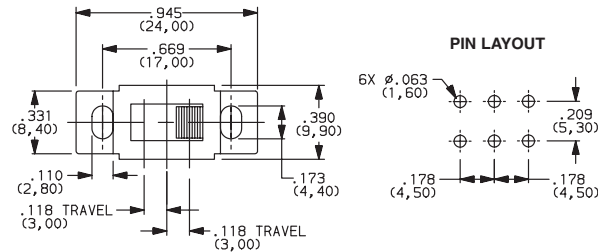
Third Angle Projection  
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



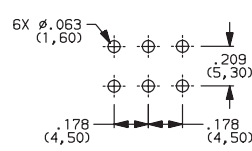
# OS Series Miniature Slide Switches

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

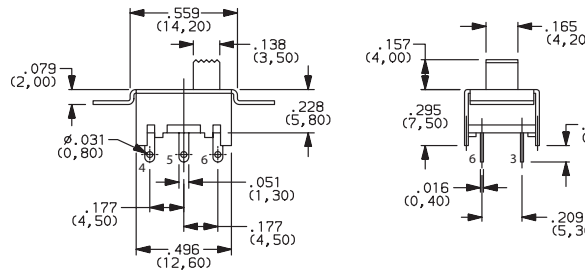
CONTACT RATING: 0.3A @ 30 VDC



PIN LAYOUT



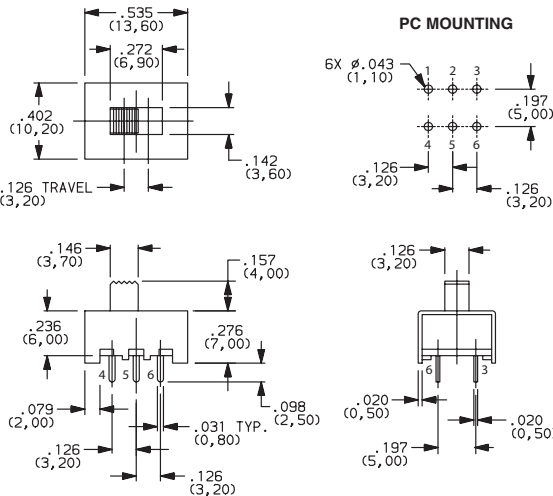
OS203013MT7QN1  
DP3T



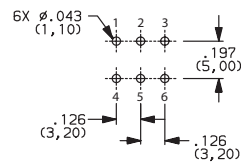
Actuator shown in pos. 3

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

CONTACT RATING: 0.3A @ 30 VDC



PC MOUNTING

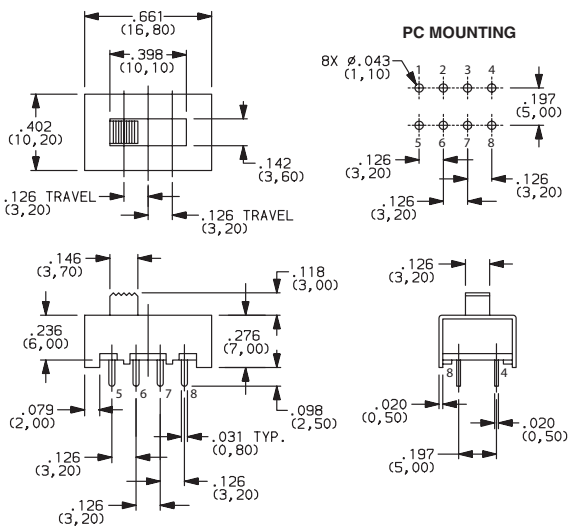


OS202013MT8QN1  
DPDT

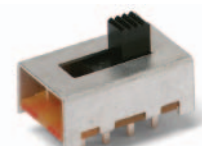
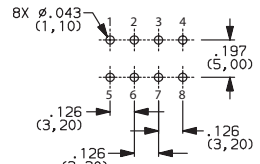
Actuator shown in pos. 1

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



PC MOUNTING



OS203013MT8QN1  
DP3T

Actuator shown in pos. 1



Third Angle  
Projection

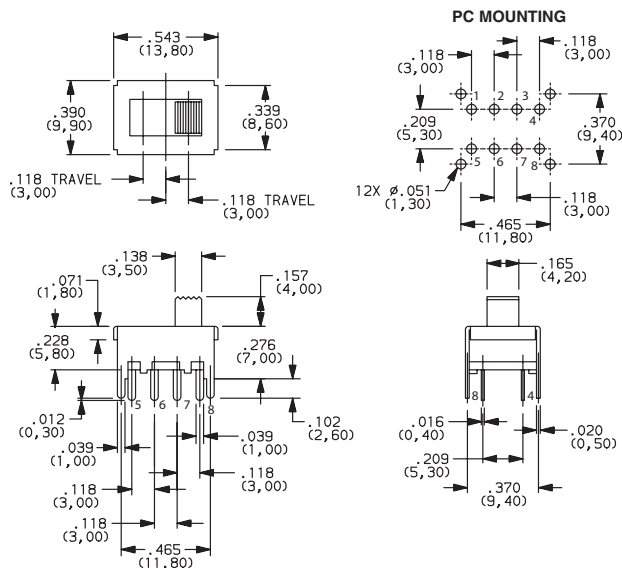
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 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					

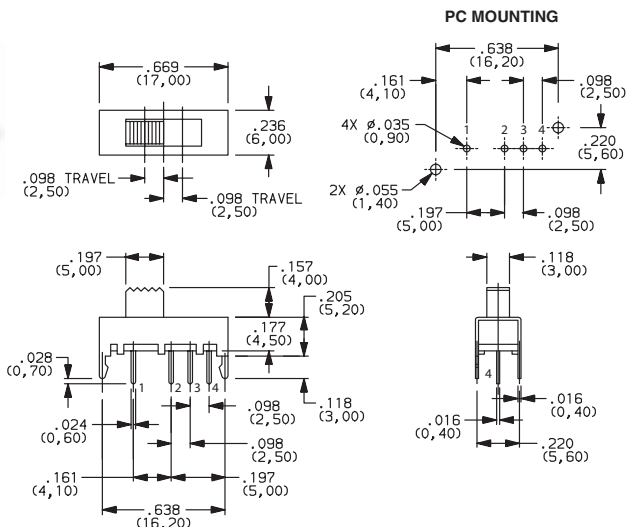
CONTACT RATING: 0.2A @ 30 VDC



Slide



OS103012MU1QP1  
SP3T

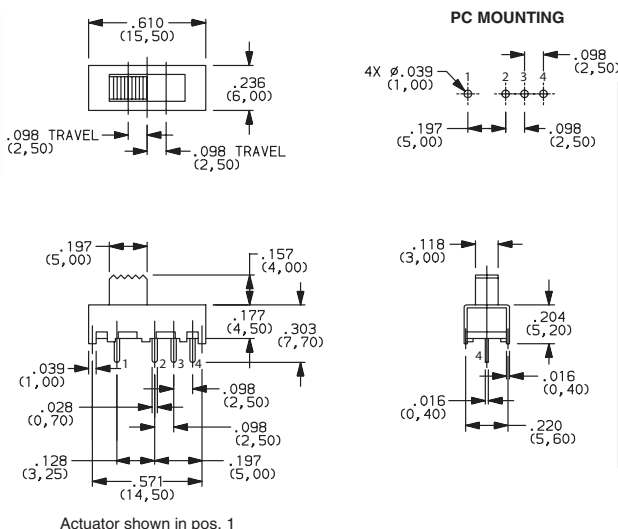


PART NUMBER	ROHS Compliant	ROHS Compatible	SWITCH FUNCTION		
			POS.1	POS.2	POS.3
OS103012MU1QP1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC					
SP3T					

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

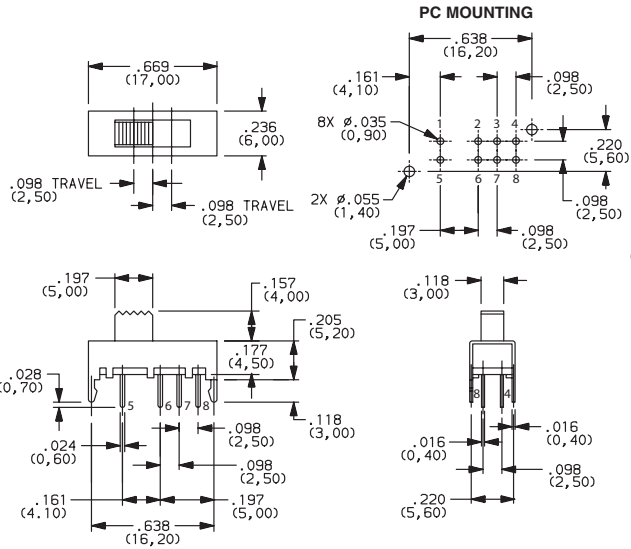
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



# OS Series Miniature Slide Switches

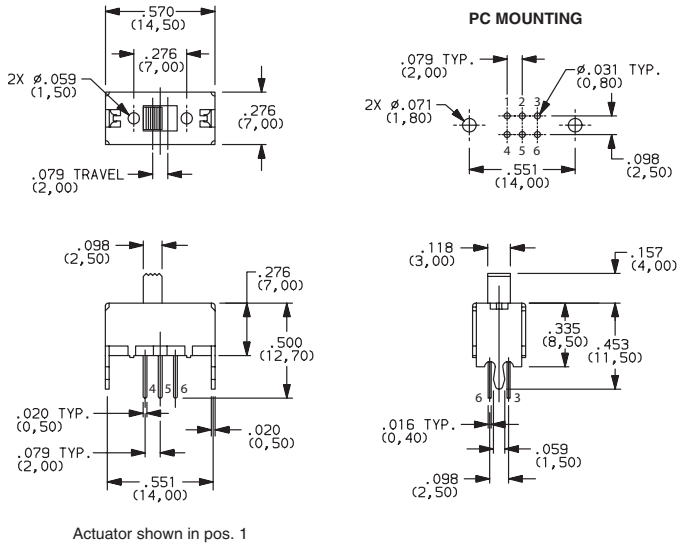
PART NUMBER			SWITCH FUNCTION		
	ROHS Compliant	ROHS Compatible	POS.1	POS.2	POS.3
<b>OS203012MU5QP1</b> (Non-specified)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	2-4, 6-8
SCHEMATIC					
<b>DP3T</b>					

CONTACT RATING: 0.1A @ 30 VDC



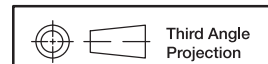
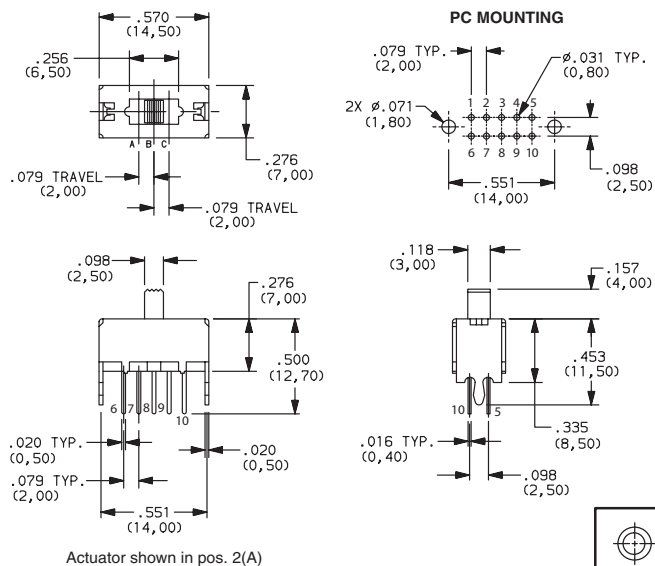
PART NUMBER			SWITCH FUNCTION	
	RoHS Compliant	RoHS Compatible	POS.1	POS.2
<b>OS202011MV4QN1</b> (Non-shorting)	YES	NO	ON	ON
<b>OS202011MV4QS1</b> (Shorting)	YES	NO	ON	ON
CONN. TERMINALS			1-2, 4-5	2-3, 5-6
SCHEMATIC				
<b>DPDT</b>				

CONTACT RATING: 0.1A @ 30 VDC



PART NUMBER			SWITCH FUNCTION		
	ROHS Compliant	ROHS Compatible	POS.1	POS.2	POS.3
<b>OS203011MV9QS1</b> (Shorting)	YES	NO	ON	ON	ON
<b>OS203011MV9QN1</b> (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					
<b>DP3T</b>					

CONTACT RATING: 0.1A @ 30 VDC



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

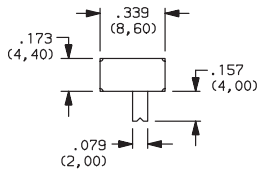


# OS Series Miniature Slide Switches

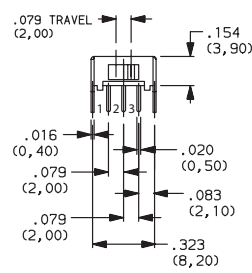
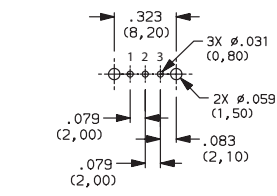
Slide



OS102011MA1QN1  
SPDT



**PC MOUNTING**



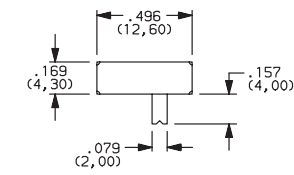
Actuator shown in pos. 2

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

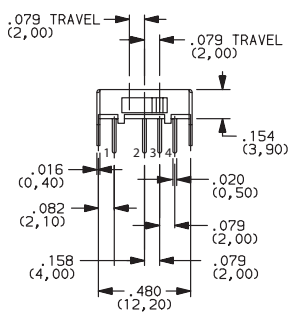
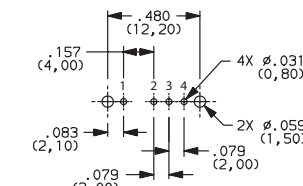
CONTACT RATING: 0.1A @ 12 VDC



OS103011MA7QP1  
SP3T



**PC MOUNTING**



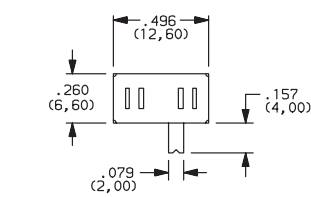
Actuator shown in pos. 3

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

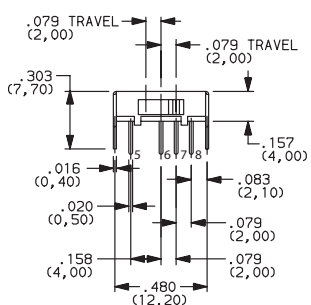
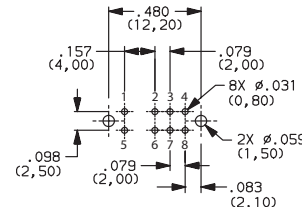
CONTACT RATING: 0.1A @ 12 VDC



OS203011MA2QP1  
DP3T



**PC MOUNTING**



Actuator shown in pos. 3

PART NUMBER	RoHS		SWITCH FUNCTION		
	Compliant	Compatible	POS.1	POS.2	POS.3
<b>OS203011MA2QP1</b> (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



Third Angle Projection

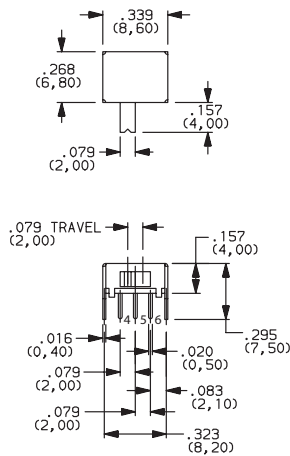
Dimensions are shown: Inch (mm)  
Specifications and dimensions subject to change



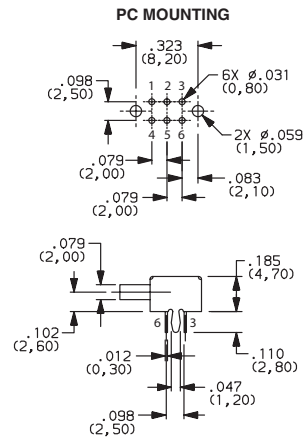
# OS Series Miniature Slide Switches

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

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



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## C&K Components:

[OS203013MT7QN1](#) [OS102011MA1QN1](#) [OS103011MA7QP1](#) [OS102011MS2QN1](#) [OS202011MA0QS1](#)  
[OS202011MS2QN1](#) [OS202011MS2QS1](#) [OS203012MU5QP1](#) [OS102011MA1QS1](#) [OS102011MS2QS1](#)  
[OS103011MS8QP1](#) [OS103012MU1QP1](#) [OS103012MU2QP1](#) [OS202011MA0QN1](#) [OS202011MV4QN1](#)  
[OS202011MV4QS1](#) [OS202013MT5QN1](#) [OS202013MT8QN1](#) [OS203011MA2QP1](#) [OS203011MS1QP1](#)  
[OS203011MV9QN1](#) [OS203011MV9QS1](#) [OS203013MT6QN1](#) [OS203013MT8QN1](#)