#### 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  $\Omega$  or less.

INSULATION RESISTANCE: 100 M  $\Omega$  min. at 500 VDC.

DIELECTRIC STRENGTH: 500 VAC for 1 minute. OPERATING TEMPERATURE: -30°C to +70°C.

PACKAGING: Bulk

#### **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.

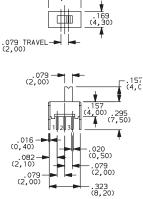
#### **How To Order**

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

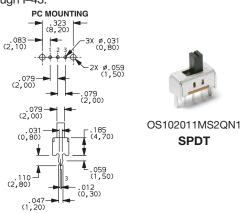
			SWITCH I	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible	1	4
OS102011MS2QN1 (non-shorting)	YES	NO	ON	ON
OS102011MS2QN1C* (non-shorting)	YES	YES	ON	ON
OS102011MS2QS1 (shorting)	YES	NO	ON	ON
OS102011MS2QS1C* (shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC	1	c ② ③		
SPDT	<b>↓</b>	<u> </u>		

CONTACT RATING: 0.1A @ 12 VDC

<sup>\* &</sup>quot;C" option at the end of part number designates high temperature actuators







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

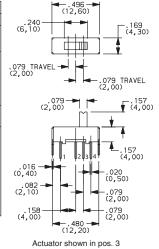
SCHEMATIC

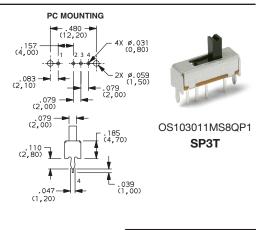


SP3T

CONTACT RATING: 0.1A @ 12 VDC

<sup>&</sup>quot;C" option at the end of part number designates high temperature actuators







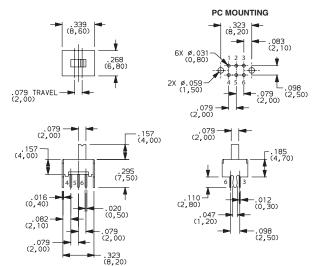
**SPDT** 

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



<sup>\*</sup> For RoHS compatible switches contact customer service.

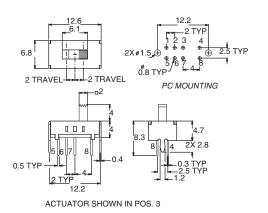
OS202011MS2QS DPDT



			SWITCH F	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible		
OS202011MS2QS1 (Shorting)	YES	NO	ON	ON
OS202011MS2QN1 (Non-shorting)	YES	NO	ON	ON
CONN. TERMINALS			1-2, 4-5	2-3, 5-6
SCHEMATIC		1) 2	3	
DPDT		4 5 0	6	

CONTACT RATING: 0.1A @ 12 VDC





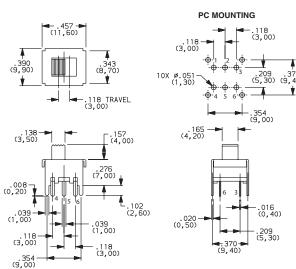
Actuator shown in pos. 2

			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	_
OS203011MS1QP1 (Non-specified)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-3, 5-7	2-3, 6-7	3-4, 7-8
SCHEMATIC			000	3 C 4	
DP3T			56	8	

CONTACT RATING: 0.3A @ 30 VDC



OS202013MT5QN1 **DPDT** 



Actuator shown in pos. 1

			SWITCH F	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible	_	_
OS202013MT5QN1 (Non-shorting)	YES	NO	ON	ON
CONN. TERMINALS			1-2, 4-5	2-3, 5-6
SCHEMATIC		<b>+</b>	3                 	
DPDT		Ĉ		

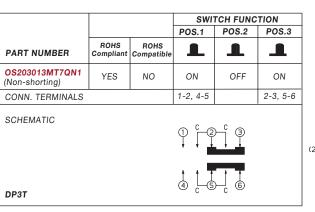
CONTACT RATING: 0.3A @ 30 VDC



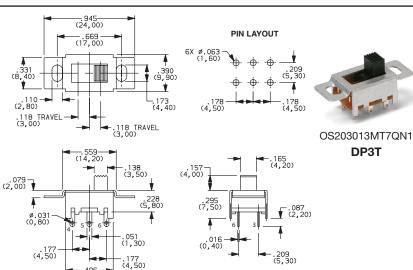
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



## **OS Series Miniature Slide Switches**



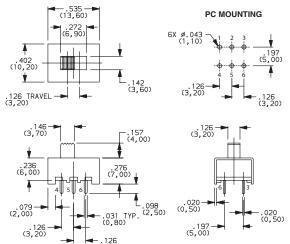




Actuator shown in pos. 3

			SWITCH FUNCTION		
			POS.1	POS.2	
PART NUMBER	RoHS Compliant	RoHS Compatible			
OS202013MT8QN1 (Non-shorting)	YES	NO	ON	ON	
CONN. TERMINALS			1-2, 4-5	2-3, 5-6	
SCHEMATIC		0	° 3		
DPDT		4	\$ \$ 6		

CONTACT RATING: 0.3A @ 30 VDC

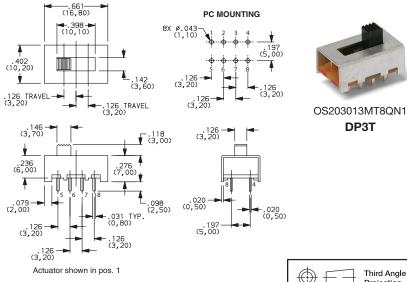


Actuator shown in pos. 1

.142 (10,20) .142 (3,60) (3,20)	PC MOUNTING  6X Ø. 0.43 1 2 3 1 1 97 (5, 00)  4 5 6 (3, 20)	OS202013MT8QN1
(3,70) (4,00) (4,00) (4,00) (4,00) (4,00) (7,00) (7,00) (7,00) (1,00)	(3,20) (3,20) (0,50) (0,50) (0,50)	DPDT

			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	1
OS203013MT8QN1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	3-4, 7-8
SCHEMATIC			1 2	3 4	
			5 6	7 8	
DP3T					

CONTACT RATING: 0.3A @ 30 VDC



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

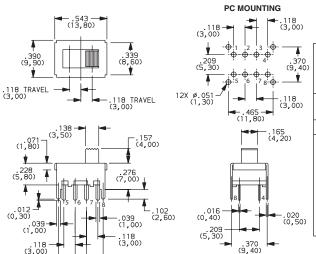


.118

Actuator shown in pos. 3



OS203013MT6QN1 DP3T



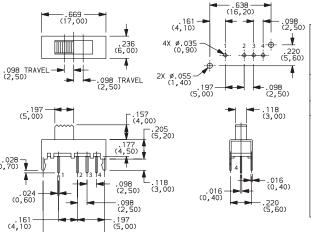
			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	1
OS203013MT6QN1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	3-4, 7-8

SCHEMATIC DP3T

CONTACT RATING: 0.2A @ 30 VDC



OS103012MU1QP1 SP3T



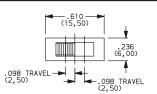
			SWI	ICH FUNC	HON	
			POS.1	POS.2	POS.3	
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	1	
OS103012MU1QP1 (Non-shorting)	YES	NO	ON	ON	ON	
CONN. TERMINALS			1-2	2-3	2-4	
SCHEMATIC						

SP3T

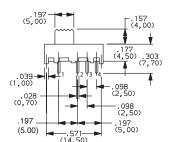
CONTACT RATING: 0.2A @ 30 VDC



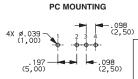
OS103012MU2QP1 SP3T



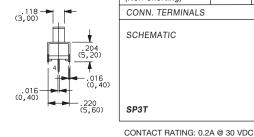
-.638 -(16,20) Actuator shown in pos. 1



Actuator shown in pos. 1



PC MOUNTING



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

SP3T



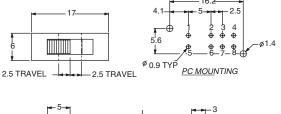
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change

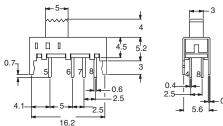


			SWITCH FUNCTION			
			POS.1	POS.2	POS.3	
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	•	
OS203012MU5QP1 (Non-specified)	YES	NO	ON	ON	ON	
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	2-4, 6-8	
SCHEMATIC		9		3 4		



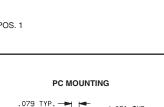
CONTACT RATING: 0.1A @ 30 VDC







.276





OS203012MU5QP1 DP3T

02011MV4QN1

**DPDT** 

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

CONTACT RATING: 0.1A @ 30 VDC

-.276 (7,00) .500 (12,70) .020 TYP (0.50) .020 (0,50) -.551 -(14,00)

\_\_\_.570— (14**,**50)

E o IIII o zi

.079 TRAVEL-

Actuator shown in pos. 1

	OS20
.118 (3,00)	
335 (8,50) .453 (11,50)	
.016 TYP	
.098 - (2,50)	

PC MOUNTING

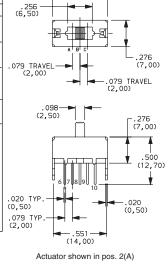
.079 TYP

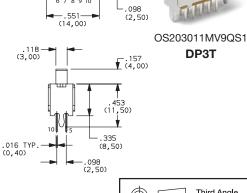
2X Ø.071 (1,80)

				SWITCH FUNCTION		
			POS.1	POS.2	POS.3	
PART NUMBER	ROHS Compliant	ROHS Compatible	1	4	4	
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			Ϋ́ (2)	3 4 5		

CONTACT RATING: 0.1A @ 30 VDC

DP3T





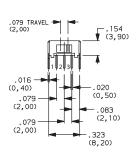
ø.031 TYP. (0,80)

Third Angle

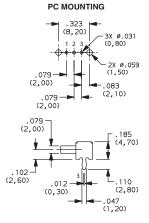
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

# .173 (8,60) (4,40) .079 (2,00)

OS102011MA1QN1 SPDT



Actuator shown in pos. 2

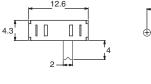


	SWITCH FUNCT			UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible		
OS102011MA1QN1 (Non-shorting)	YES	NO	ON	ON
OS102011MA1QN1C* (Non-shorting)	YES	YES	ON	ON
OS102011MA1QS1 (Shorting)	YES	NO	ON	ON
OS102011MA1QS1C* (Shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC		C	^	
SPDT	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

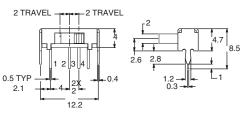
CONTACT RATING: 0.1A @ 12 VDC



OS103011MA7QP1 **SP3T** 







			SWITCH FUNCTION		
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	_
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					
		o c	<b>a</b> a		

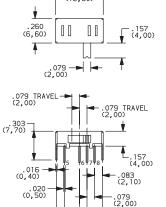
SP3T

CONTACT RATING: 0.1A @ 12 VDC

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



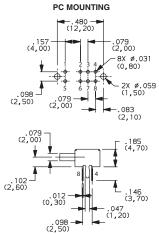
OS203011MA2QP1 **DP3T** 



Actuator shown in pos. 3

.158

.079 (2,00)



	SWITCH FUNCTION				
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	4	4	1
OS203011MA2QP1 (Non-specified)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	2-4, 6-8
SCHEMATIC	0° 2° 3° 4°				
		\$\frac{1}{5} \frac{1}{c}	678	<b>I</b> )	
DP3T					

CONTACT RATING: 0.1A @ 12 VDC

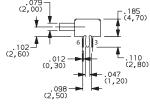


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change



<sup>\* &</sup>quot;C" option at the end of part number designates high temperature actuators

079 TRAVEL	:157
.016 - (0, 40) .079 (2,00)	.295 .020 (7,50) (0,50)
.079	(2,10)



PC MOUNTING

CONTACT RATING: 0.1A @ 12 VDC

PART NUMBER

OS202011MA0QN1
(Non-shorting)

OS202011MA0QS1 (Shorting)

CONN. TERMINALS

DPDT

Actuator shown in pos. 1

SWITCH FUNCTION POS.1 POS.2

ON

ON

2-3, 5-6

ON

ON

1-2, 4-5

RoHS Compatible

NO

NO

RoHS Compliant

YES

YES

