# **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  $\Omega$  or less.

INSULATION RESISTANCE: 100 M  $\Omega$  min. at 500 VDC. DIELECTRIC STRENGTH: 500 VAC for 1 minute. OPERATING TEMPERATURE: -10°C to +70°C.

PACKAGING: Bulk

#### **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**

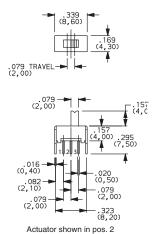
Complete part numbers for OS Series Slide Switches are shown on pages I-37 through I-43.

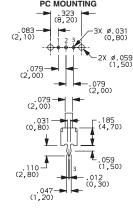
NOTE: Adding "C" option at the end of part number designates high temperature actuators

PC MOUNTING

			SWITCH F	UNCTION	
			POS.1	POS.2	
PART NUMBER	RoHS Compliant	RoHS Compatible	•	_	
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 C ( ) ( ) ( ) ( ) ( )					
SPDT		* + +			









OS102011MS2QN1 **SPDT** 

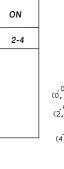
			SWI	TION	
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	4	4	4
OS103011MS8QP1 (Non-specified)	YES	NO	ON	ON	ON
OS103011MS8QP1C (Non-specified)	YES	YES	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4

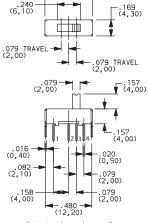
**SCHEMATIC** 



SP3T

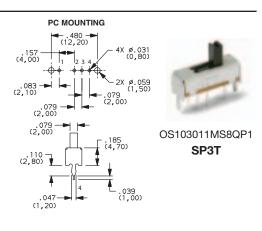
CONTACT RATING: 0.1A @ 12 VDC





-.496 -(12,60)

Actuator shown in pos. 3





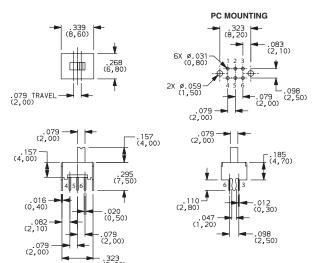
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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



OS202011MS2QS1 **DPDT** 

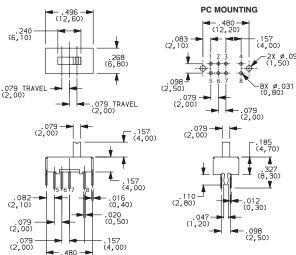


			SWITCH FUNCTION		
			POS.1	POS.2	
PART NUMBER	RoHS Compliant	RoHS Compatible			
OS202011MS2QS1 (Shorting)	YES	NO	ON	ON	
OS202011MS2QN1 (Non-shorting)	YES	NO	ON	ON	
CONN. TERMINALS			1-2, 4-5	2-3, 5-6	
SCHEMATIC		1 2	3		
DPDT		4 5 c	6		

CONTACT RATING: 0.1A @ 12 VDC



OS203011MS1QP1 DP3T



Actuator shown in pos. 2

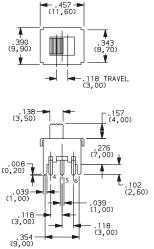
.480 <del> </del> 12,20)	
1.157 (4,00) 2 3 4 -2X Ø.059 (1,50) 6 7 8 -8X Ø.031 (0,80)	P
0,009 (2,00) (2,00)	(N C
.327 (8,30)	
.012	D
.098 (2,50)	C

			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	7 8	

CONTACT RATING: 0.3A @ 30 VDC

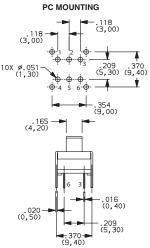


OS202013MT5QN1 **DPDT** 



Actuator shown in pos. 3

Actuator shown in pos. 1



) ———	
.370	PA
.370 (9,40)	OS2 (Non-
	CON
	sch
; (0)	DPD
·,	
0)	CON

			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		G G	•	

ITACT RATING: 0.3A @ 30 VDC



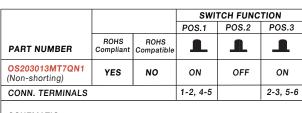
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



OS203013MT7QN1 DP3T

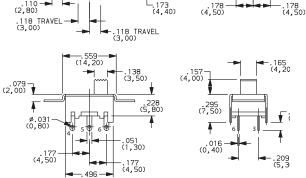
PIN LAYOUT

d	
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SCHEMATIC DP3T

CONTACT RATING: 0.3A @ 30 VDC



Actuator shown in pos. 3

-. 945-(24,00)

-.669 -(17,00)

			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							
	φ <a>ô</a> <a>ô</a> <a>ô</a> <a>o</a>						
DPDT		4	\$ \$ \$				

CONTACT RATING: 0.3A @ 30 VDC

Actuator shown in pos. 1

(13,60)	PC MOUNTING
.272	6X Ø.043 — 1 2 3 (1,10)
(10,20)	197 (5,00)
.142 .126 TRAVEL — (3,60) (3,20)	.126 (3,20)126 (3,20)
(3,70)	.126
.236 (6,00) .276 (7,00)	u6 3
.098 (2,00) .098 .126 .098	.020 .020 .020 .020 .020 .020 .050)
(3,20)	(3,00)

(16,80)	PC MOUNTING
(10,10)	8X Ø.043
.126 TRAVEL - (3, 20)	197 (5,00) (6,00) (6,00
(3,70)	.118 .126
.236 (6,00)	276 (7,00)
079 (2,00) 126 (3,20)	031 TYP. (0,80) (0,50) (0,50) (0,50)



OS202013MT8QN1 DPDT

OS203013MT8QN1 DP3T

			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	.12 (3,
SCHEMATIC			1 2	3 4		
			<b>5 6</b>	7 8		
DP3T						(2

SWITCH FUNCTION

CONTACT RATING: 0.3A @ 30 VDC

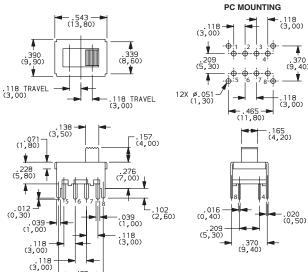


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Third Angle Projection

Actuator shown in pos. 1

OS203013MT6QN1 DP3T



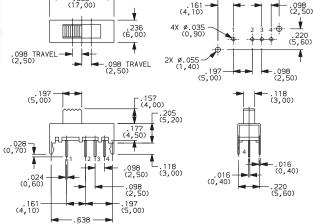
			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	◢
OS203013MT6QN1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	3-4, 7-8
SCHEMATIC		02	3 4		
DP3T		† † (5) (6)	7 8		

CONTACT RATING: 0.2A @ 30 VDC



OS103012MU1QP1

SP3T



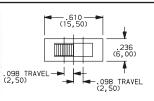
)24 - 60)	1 12 13 14 1 12 14 14 1 12 14 1 12 14 1 14	098 (2,50) 098 (2,50) 118 (3,00) 	.016 (0,40) .220 (5,60)	
Act	uator shown in pos.	. 1		

)				SWITCH FUNCTION		
				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		Ŷ (		4)	
	SP3T					

CONTACT RATING: 0.2A @ 30 VDC



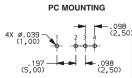
OS103012MU2QP1 SP3T



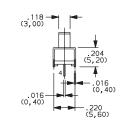
Actuator shown in pos. 3

.197 -.157 (4,00) .177 (4,50) .303 (7,70) .039 .028 .197 (5,00) .128 -.571-(14,50)

Actuator shown in pos. 1



PC MOUNTING



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

SCHEMATIC



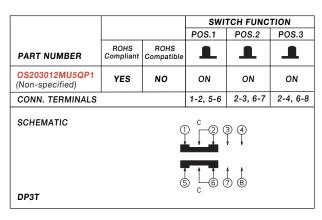
SP3T

CONTACT RATING: 0.2A @ 30 VDC



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



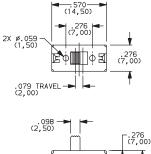


PC MOUNTING -.638 -(16,20) .161 8X Ø.035 (0,90) .236 .098 TRAVEL -.098 TRAVEL (2,50) .098 (2,50) .197 (5,00) .098 (2,50) OS203012MU5QP1 .197 .118 [.157 (4,00) DP3T (4,50) .028 (0,70) .016 (0,40) .024 .098 (2,50) .098 .197 (5,00) .161 .220

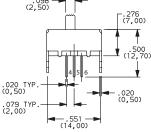
CONTACT RATING: 0.1A @ 30 VDC

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

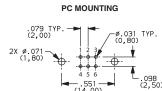


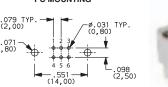


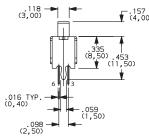
Actuator shown in pos. 1



Actuator shown in pos. 1





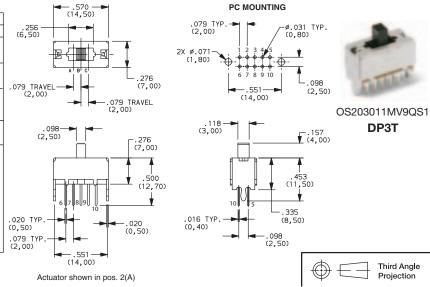


3	711
7 00)	OS202011MV4QN <sup>-</sup> <b>DPDT</b>

			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	ı	1
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				3 4 5	

DP3T

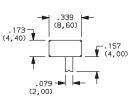


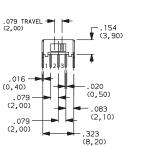


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

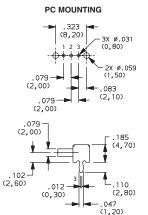


OS102011MA1QN1 **SPDT** 





Actuator shown in pos. 2

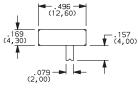


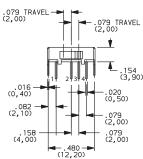
			SWITCH F	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible	•	
OS102011MA1QN1 (Non-shorting)	YES	NO	ON	ON
OS102011MA1QN1C (Non-shorting)	YES	YES	ON	ON
OS102011MA1QS1 (Shorting)	YES	NO	ON	ON
OS102011MA1QS1C (Shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC		1 2	3	
SPDT				

CONTACT RATING: 0.1A @ 12 VDC

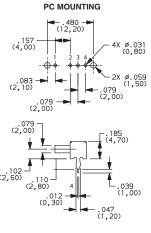


OS103011MA7QP1 SP3T





Actuator shown in pos. 3



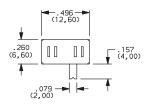
			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	_
OS103011MA7QP1 (Non-specified)	YES	NO	ON	ON	ON
OS103011MA7QP1C (Non-specified)	YES	YES	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC					

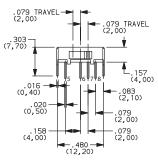


CONTACT RATING: 0.1A @ 12 VDC

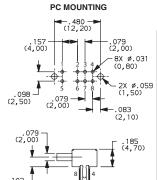


OS203011MA2QP1 DP3T



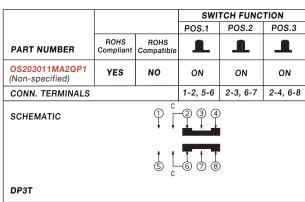


Actuator shown in pos. 3



		(	2,10)
(2,00 (2,00 \\	**************************************	-   -   -   -   -   -   -   -   -   -	.185 (4,70)
.102 <sup></sup> (2,60)	.012 — (0,30) — .098 — (2,50)	.04	.146 (3,70) 7 (0)

CONTACT RATING: 0.1A @ 12 VDC



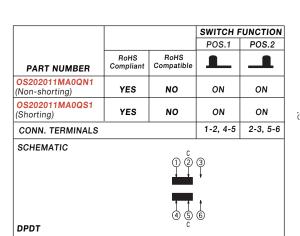


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



# OS Series Miniature Slide Switches

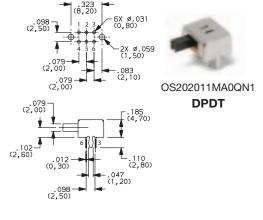
PC MOUNTING



CONTACT RATING: 0.1A @ 12 VDC

.079 TRAVEL (2,00) .016 .020 (7,50) (2,00) .083 (2,10) (2,00) .323 (8,20)

.268 (6,80)



Actuator shown in pos. 1

Third Angle Projection

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

