## **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  $\Omega$  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: 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**

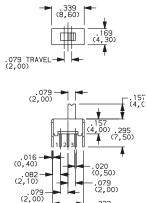
Complete part numbers for OS Series Slide Switches are shown on pages I-37 through I-43.

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

PC MOUNTING

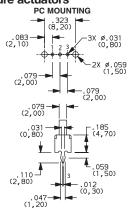
			SWITCH F	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible		_
OS102011MS2QN1 (non-shorting)	YES	NO	ON	ON
OS102011MS2QN1C (non-shorting)	YES	YES	ON	ON
OS102011MS2QS1 (shorting)	YES	NO	ON	ON
OS102011MS2QS1C (shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC		C (1) (2) (3)		
SPDT		ŢŢŢ		

CONTACT RATING: 0.1A @ 12 VDC





-.496 -(12,60)





			SWITCH FUNCTION		
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	4	1	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** 

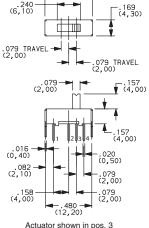


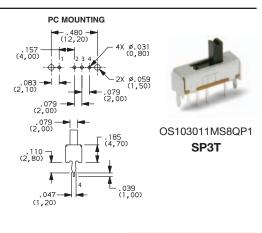
SP3T

CONTACT RATING: 0.1A @ 12 VDC



OWITCH FUNCTION







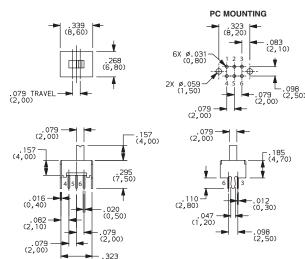
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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



OS202011MS2QS1 **DPDT** 



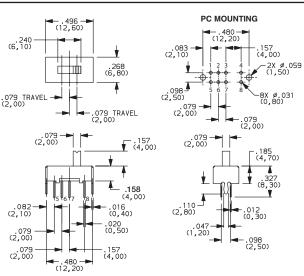
Actuator shown in pos. 2

			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	0 2 3						
DPDT		4 5	6				

CONTACT RATING: 0.1A @ 12 VDC



OS203011MS1QP1 **DP3T** 

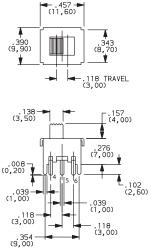


			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	1
OS203011MS1QP1 (Non-specified)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-3, 5-7	2-3, 6-7	3-4, 7-8
SCHEMATIC			<b>1 2 6</b>	3 C 4	
DP3T			5 6 (	8	

CONTACT RATING: 0.3A @ 30 VDC

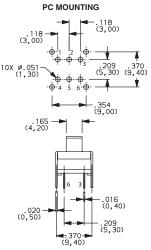


OS202013MT5QN1 **DPDT** 



Actuator shown in pos. 3

Actuator shown in pos. 1



			CWITCH	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 + + 6	
DPDT				

CONTACT RATING: 0.3A @ 30 VDC



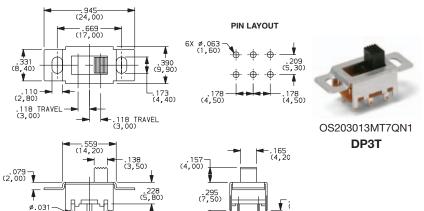
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	•	1	1
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



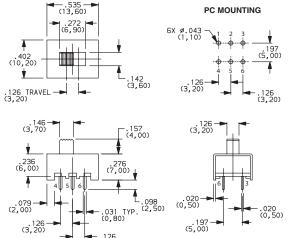
.016

Actuator shown in pos. 3

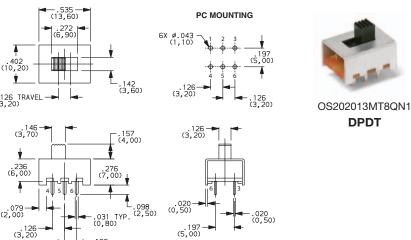
.177

			SWITCH F	UNCTION
			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		9	° 3	
DPDT		4	\$ 6	

CONTACT RATING: 0.3A @ 30 VDC



Actuator shown in pos. 1



						(16,80)	PC MOUNTING	
			SWI	TCH FUNC	TION	(10,10) (10,10)	8X Ø.043¬	Allen
			POS.1	POS.2	POS.3	[ [(10,10) ] ]	8X Ø.043 (1,10)	
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1		.402	+ + + + .197 - + + + + (5,00)	
OS203013MT8QN1 (Non-shorting)	YES	NO	ON	ON	ON	142 (3,60)	(3,20)	THE REAL PROPERTY.
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	3-4, 7-8	.126 TRAVEL 126 TRAVEL (3,20)	.126 (3,20)	
SCHEMATIC			① ② ⑤ ⑥			(3,70) (3,70) (3,70) (3,70) (6,00) (7,00)	8 (3,20)	OS203013MT8QN1 <b>DP3T</b>
DP3T						.079	18 .02002 <u>0</u> .02 <u>0</u>	
CONTACT F	ATING: 0.3	A @ 30 VDC				.1261	(0,50) 197 (5,00)	
						Actuator shown in pos. 1		Third Angle



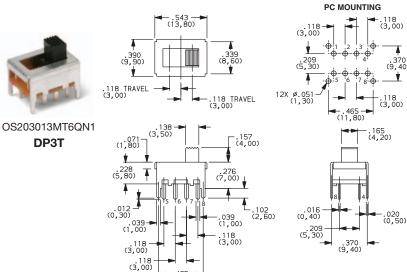
Specifications and dimensions subject to change

Dimensions are shown: Inches (mm)

Projection

DPDT

# **Miniature Slide Switches**

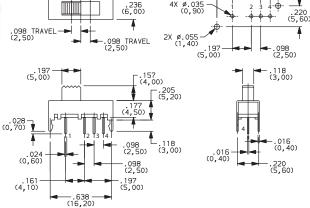


			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible		4	1
OS203013MT6QN1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2, 5-6	2-3, 6-7	3-4, 7-8
SCHEMATIC		1 2	3 4		
DP3T		† 5 6	78		

DP3T

OS103012MU1QP1

SP3T



.161

Actuator shown	in	pos.	1	
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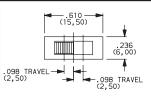
Actuator shown in pos. 3

			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	₽	1
OS103012MU1QP1 (Non-shorting)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC					
		o 1 P	· 2 3 (	4	
			<b>-</b>	*	

CONTACT RATING: 0.2A @ 30 VDC

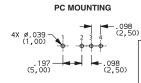


OS103012MU2QP1 SP3T

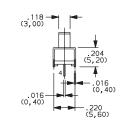


.197 -.157 (4,00) .177 (4,50) .303 (7,70) .039 .028 .197 (5,00) .128 -.571-(14,50)

Actuator shown in pos. 1



PC MOUNTING



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

**SCHEMATIC** 

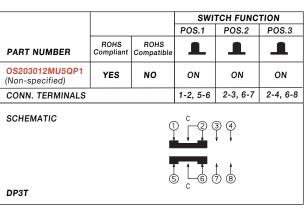
CONTACT RATING: 0.2A @ 30 VDC

SP3T

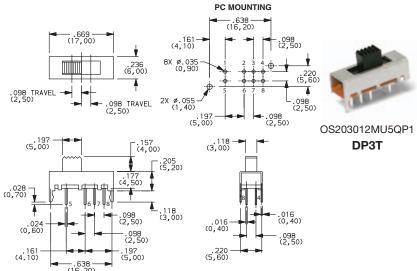


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



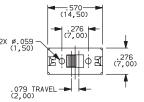


CONTACT RATING: 0.1A @ 30 VDC

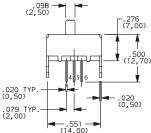


SWITCH FUNCTION POS.1 POS.2 RoHS RoHS Compliant Compatible PART NUMBER OS202011MV4QN1 YES NO ON ON (Non-shorting) OS202011MV4QS1 ON ON YES (Shorting) NO CONN. TERMINALS 1-2, 4-5 2-3, 5-6 SCHEMATIC DPDT

CONTACT RATING: 0.1A @ 30 VDC



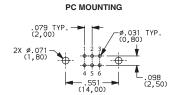
Actuator shown in pos. 1



Actuator shown in pos. 1

.256

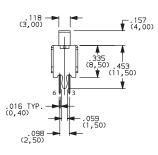
- .570 -(14,50)





OS202011MV4QN1

**DPDT** 



PC MOUNTING

2X Ø.071 (1,80)

307	

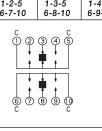
.276 (7,00)

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

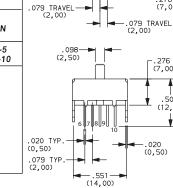


DP3T

CONTACT RATING: 0.1A @ 30 VDC



SWITCH FUNCTION



-.276 (7,00) 500 (12.70) .020 (0,50)

.098 (2,50) -.551-(14,00) .118 ▼.157 (4,00) .335 (8,50) .016 TYP. .098 (2,50)



OS203011MV9QS1 DP3T

ø.031 TYP. (0,80)

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



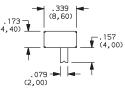
Third Angle

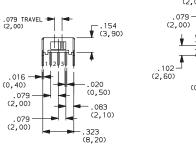
Projection

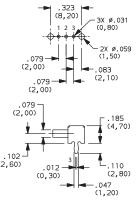
Actuator shown in pos. 2(A)



OS102011MA1QN1 **SPDT** 







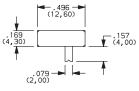
PC MOUNTING

			SWITCH FUNCTION		
			POS.1	POS.2	
PART NUMBER	RoHS Compliant	RoHS Compatible	1	_	
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	CHEMATIC ① ② ③				
SPDT					

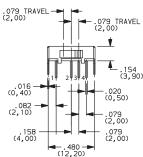
CONTACT RATING: 0.1A @ 12 VDC



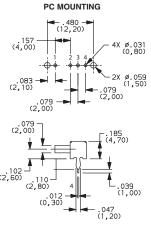
OS103011MA7QP1 SP3T



Actuator shown in pos. 2



Actuator shown in pos. 3



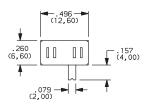
			SWI	SWITCH FUNCTION	
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	4	1	_
OS103011MA7QP1 (Non-specified)	YES	NO	ON	ON	ON
OS103011MA7QP1C (Non-specified)	YES	YES	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC				•	•

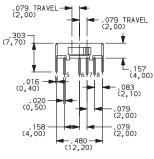
SP3T

CONTACT RATING: 0.1A @ 12 VDC

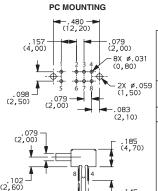


OS203011MA2QP1 DP3T



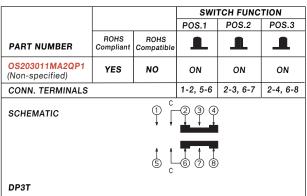


Actuator shown in pos. 3



			(2,10)
.075 (2,00		8 4 4	.185
.102 <sup></sup> (2,60)	.012 — (0,30) — .098 — (2,50)		.146 (3,70) 047 1,20)

CONTACT	DATING.	0 1 4	@ 10	١/٢



Third Anale Projection



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

## OS Series Miniature Slide Switches

		SWITCH FUNCTION			
		POS.1	POS.2		
RoHS Compliant	RoHS Compatible		_		
YES	NO	ON	ON		
YES	NO	ON	ON		
		1-2, 4-5	2-3, 5-6		
SCHEMATIC					
0 2 3					
<u> </u>					
4 5 6					
	Compliant	YES NO YES NO	POS.1  RoHS Compliant Compatible  YES  NO  ON  1-2, 4-5		

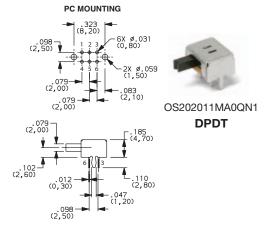
DPDT

CONTACT RATING: 0.1A @ 12 VDC

.079 TRAVEL - (4,00) .016 - (0,40) .020 (7,50) .079 - (0,50) .079 - (0,50) .020 (7,50) .030 (2,00) .030 (2,10) .323 (8,20)

.268 (6,80)

.079



Actuator shown in pos. 1





## **Mouser Electronics**

**Authorized Distributor** 

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

## **C&K Components:**

OS203013MT7QN	11 0S102011MA1QN	1 0S103011MA7QP	1 0S102011MS2QN	1 0S202011MA0QS1
0S202011MS2QN1	0S202011MS2QS1	0S203012MU5QP1	0S102011MA1QS1	0S102011MS2QS1
0S103011MS8QP1	0S103012MU1QP1	0S103012MU2QP1	0S202011MA0QN1	0S202011MV4QN1
0S202011MV4QS1	0S202013MT5QN1	0S202013MT8QN1	0S203011MA2QP1	0S203011MS1QP1
0S203011MV9QN1	0S203011MV9QS1	0S203013MT6QN1	0S203013MT8QN1	OS103011MA7QP1C