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

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

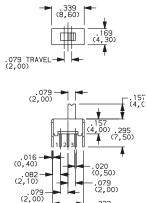
Complete part numbers for OS Series Slide Switches are shown on pages I-37 through I-43.

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

PC MOUNTING

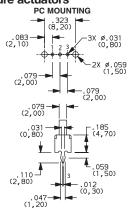
			SWITCH F	UNCTION
			POS.1	POS.2
PART NUMBER	RoHS Compliant	RoHS Compatible		_
OS102011MS2QN1 (non-shorting)	YES	NO	ON	ON
OS102011MS2QN1C (non-shorting)	YES	YES	ON	ON
OS102011MS2QS1 (shorting)	YES	NO	ON	ON
OS102011MS2QS1C (shorting)	YES	YES	ON	ON
CONN. TERMINALS			1-2	2-3
SCHEMATIC		C (1) (2) (3)		
SPDT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

CONTACT RATING: 0.1A @ 12 VDC





-.496 -(12,60)





			SWI	TCH FUNC	TION
			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

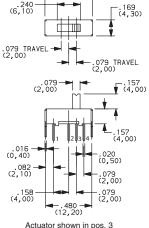


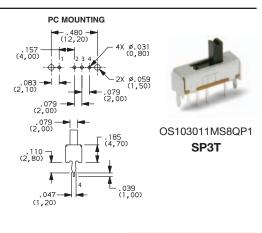
SP3T

CONTACT RATING: 0.1A @ 12 VDC



OWITCH FUNCTION







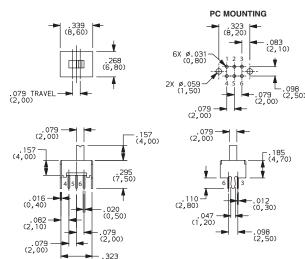
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



^{*} For RoHS compatible switches contact customer service.



OS202011MS2QS1 **DPDT**



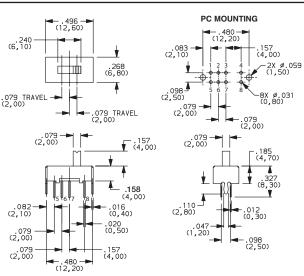
Actuator shown in pos. 2

			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**

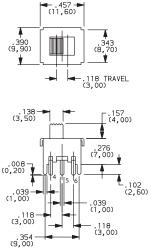


			SWI	TCH FUNC	TION
			POS.1	POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	1	1	1
OS203011MS1QP1 (Non-specified)	YES	NO	ON	ON	ON
CONN. TERMINALS			1-3, 5-7	2-3, 6-7	3-4, 7-8
SCHEMATIC			1 2 6	3 C 4	
DP3T			5 6 (8	

CONTACT RATING: 0.3A @ 30 VDC

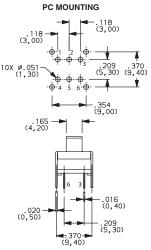


OS202013MT5QN1 **DPDT**



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		₩	3 + + 6	
DPDT				

CONTACT RATING: 0.3A @ 30 VDC



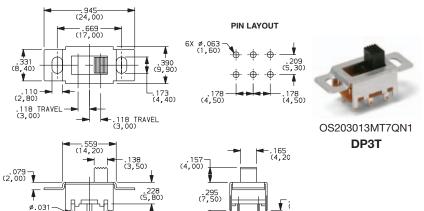
Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



			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



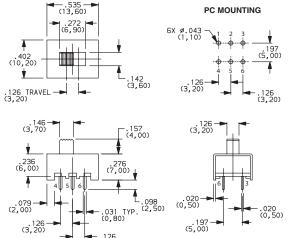
.016

Actuator shown in pos. 3

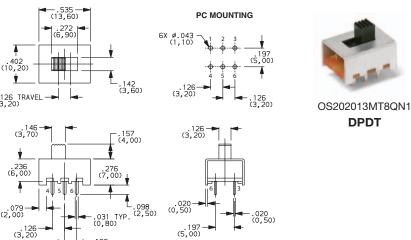
.177

			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	0 0 0					
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 DP3T
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



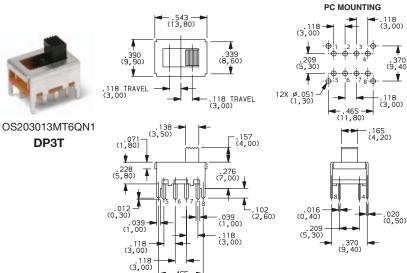
Specifications and dimensions subject to change

Dimensions are shown: Inches (mm)

Projection

DPDT

Miniature Slide Switches

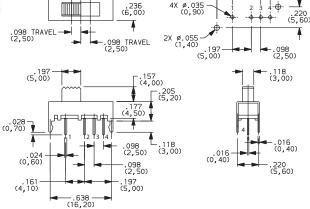


Actuator shown in pos. 3

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

OS103012MU1QP1

SP3T



.161

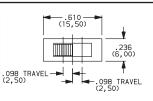
Actuator shown	in	pos.	1	
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PART NUMBER OS103012MU1QP1 (Non-shorting)	ROHS Compliant	ROHS Compatible	POS.1	POS.2	POS.3
OS103012MU1QP1	Compliant		1		
	YES	NO	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC		₽ [236	1)	

CONTACT RATING: 0.2A @ 30 VDC

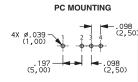


OS103012MU2QP1 SP3T

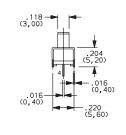


.197 (5,00)		
	╵ ┝┸╬╾╌╬╬╫╬╟	.177 (4,50) .303 (7,70)
.039 >	4	098
.028 — (0,70)		(2,50) 098 (2,50)
.128 — (3,25)	.571	197 (5,00)

Actuator shown in pos. 1



PC MOUNTING



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

SCHEMATIC



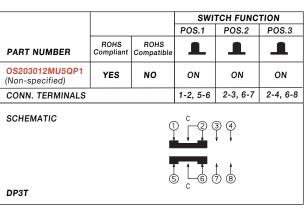
SP3T

CONTACT RATING: 0.2A @ 30 VDC

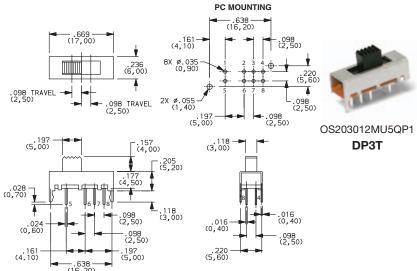


Dimensions are shown: Inch (mm) Specifications and dimensions subject to change



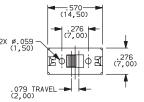


CONTACT RATING: 0.1A @ 30 VDC

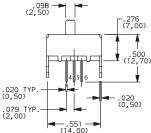


SWITCH FUNCTION POS.1 POS.2 RoHS RoHS Compliant Compatible PART NUMBER OS202011MV4QN1 YES NO ON ON (Non-shorting) OS202011MV4QS1 ON ON YES (Shorting) NO CONN. TERMINALS 1-2, 4-5 2-3, 5-6 SCHEMATIC DPDT

CONTACT RATING: 0.1A @ 30 VDC



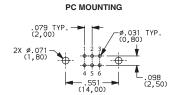
Actuator shown in pos. 1



Actuator shown in pos. 1

.256

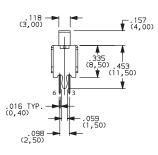
- .570 -(14,50)





OS202011MV4QN1

DPDT



PC MOUNTING

2X Ø.071 (1,80)

307	

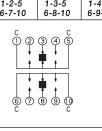
.276 (7,00)

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

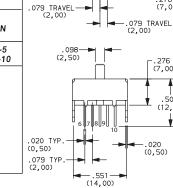


DP3T

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



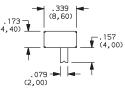
Third Angle

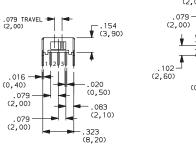
Projection

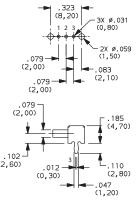
Actuator shown in pos. 2(A)



OS102011MA1QN1 **SPDT**







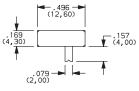
PC MOUNTING

			SWITCH FUNCTIO	
			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	စု စို့ ချ			
SPDT				

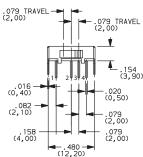
CONTACT RATING: 0.1A @ 12 VDC



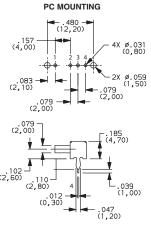
OS103011MA7QP1 SP3T



Actuator shown in pos. 2



Actuator shown in pos. 3



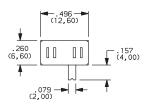
			SWITCH FUNCTION		
				POS.2	POS.3
PART NUMBER	ROHS Compliant	ROHS Compatible	4	1	_
OS103011MA7QP1 (Non-specified)	YES	NO	ON	ON	ON
OS103011MA7QP1C (Non-specified)	YES	YES	ON	ON	ON
CONN. TERMINALS			1-2	2-3	2-4
SCHEMATIC				•	•

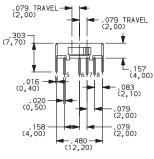
SP3T

CONTACT RATING: 0.1A @ 12 VDC

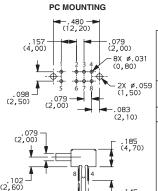


OS203011MA2QP1 DP3T



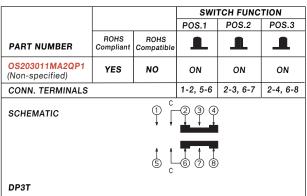


Actuator shown in pos. 3



			(2,10)
.075 (2,00		8 4 4	.185
.102 (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				
	F		POS.2			
RoHS Compliant	RoHS Compatible		_			
YES	NO	ON	ON			
YES	NO	ON	ON			
		1-2, 4-5	2-3, 5-6			
SCHEMATIC						
Q Q 3						
<u> </u>						
456						
	Compliant	YES NO YES NO	POS.1 RoHS Compliant Compatible YES NO ON 1-2, 4-5			

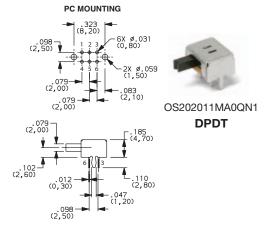
DPDT

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



