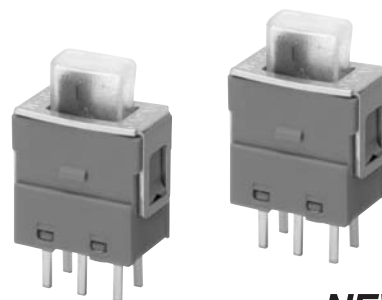


Slide Switch (Small size)

A9S**Two-point clip contact mechanism combined with see-saw action.**

- Gold-plated clip contact and cleaning mechanisms ensure high reliability.
- Specially designed to allow no grease entry into the contact portion.
- Sealed against flux entry and a built-in "O-ring ensures immersion wash ability.
- Washable models. (IP64)
- RoHS

***NEW*****Ordering Information**● **DIP terminal**

Boot			Bootless		With Boot	
						
Switching Function						
			Single Pole Double Throw	Double Pole Double Throw	Single Pole Double Throw	Double Pole Double Throw
ON	—	ON	A9S11-0011	A9S21-0011	A9S11-0021	—
ON	OFF	ON	A9S12-0011	A9S22-0011	—	—

● **Right Angle**

Boot			Bootless		With Boot	
						
Switching Function						
			Single Pole Double Throw	Double Pole Double Throw	Single Pole Double Throw	Double Pole Double Throw
ON	—	ON	A9S11-0012	A9S21-0012	A9S11-0022	—
ON	OFF	ON	A9S12-0012	A9S22-0012	—	—

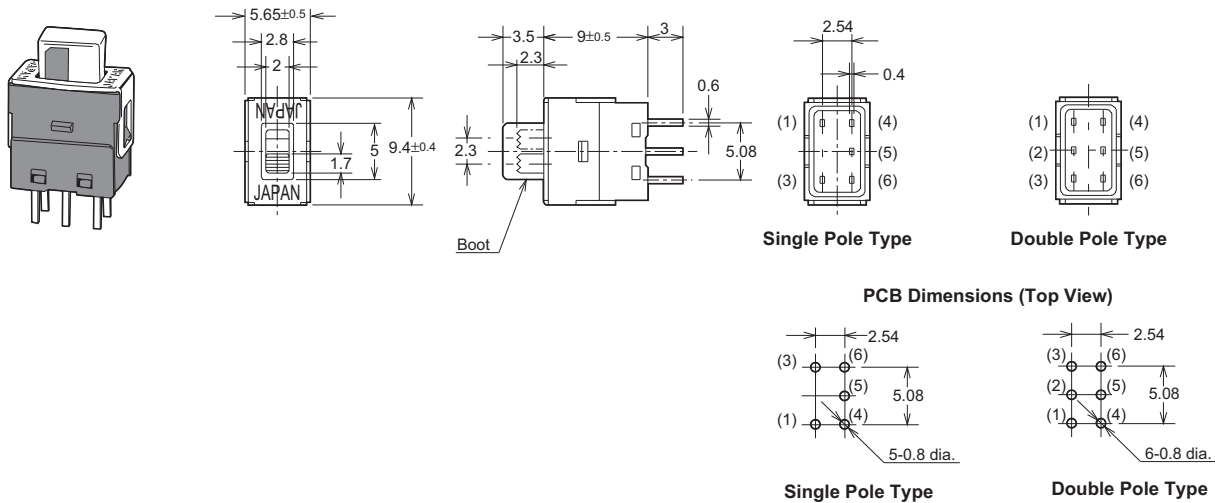
Specifications

Switching capacity		AC/DC 60V 50mA, AC/DC 20mV 1 μ A (minimum current)
Ambient temperature		-20 to 80 °C 60% RH Max. (with no icing or condensation)
Ambient humidity		operating : 45% to 85% (5 to 35 °C)
Insulation resistance		1000 M Ω min (Initial value)
Contact resistance		50 m Ω max (Initial value)
Dielectric strength		500 VAC for 1 min between terminals, between terminals and ground
Vibration resistance	Malfunction	Malfunction: 10 to 55Hz, 1.5-mm double amplitude
Shock resistance	Malfunction	Malfunction: 500m/s ² min
Life expectancy	Mechanical	50,000 operations min
	Electrical	50,000 operations min
Operating force		0.39 to 3.92 N
Weight	DIP terminal	0.8 g
	Right Angle	1 g

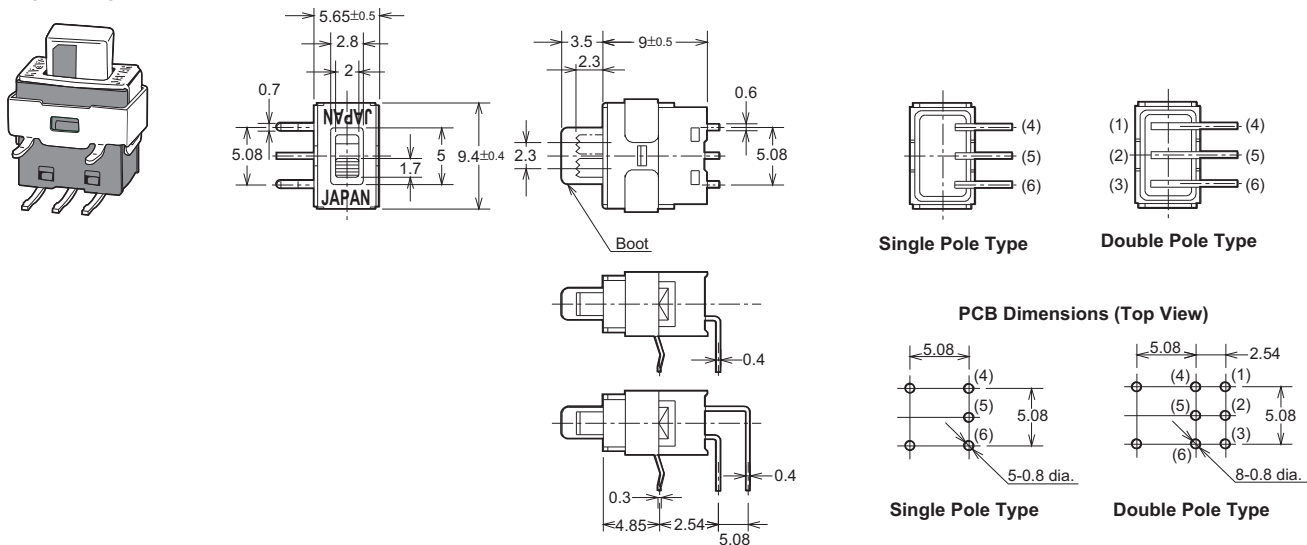
Dimensions

(Unit: mm)

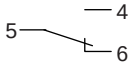
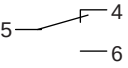
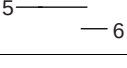
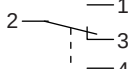
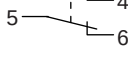
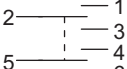
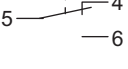
● DIP terminal



● Right Angle



Switching Function / Internal Connections

	Switching Function					
Single Pole Type	ON	—	ON		—	
	ON	OFF	ON			
Double Pole Type	ON	—	ON		—	
	ON	OFF	ON			

Safety Precautions

● Cautions

Use the Slide Switch within the rated voltage and current ranges, otherwise the Slide Switch may have a shortened life expectancy, radiate heat, or burn out. This particularly applies to the instantaneous voltages and currents when switching.

● Handling

Do not apply excessive operating force to the Switch. Otherwise the Switch may be damaged or deformed, and the switch mechanism may malfunction as a result. Apply an operating force not exceeding 9.8 N. Apply the operating load from the side of the striker. Do not apply a load from an angle or from above the striker. Doing so may deform the Switch contact.

● Soldering

Observe the following conditions when soldering the Slide Switch.

Automatic Soldering Bath

Soldering temperature: 260°C max. (Preheating: 100°C 120 s)

Soldering time: 5 s max.

Manual Soldering

Soldering temperature: 350°C at the tip of the soldering iron.

Soldering time: 3 s max.

● Washing

Apply alcohol or fluorine based solvents to clean.

Do not clean the switch immediately after soldering. Wait for at least five minutes after soldering before cleaning.

Ultrasonic cleaning is not available dip into the switch washing agents for two minute maximum.

● Using Flux

Making mistakes in the type of flux or in the amount or method in which it is applied can cause flux to enter the interior of the Switch, with adverse effects on Switch performance. Assess the proper flux, conditions, and methods prior to using it.

● RoHS Compliant

The "RoHS Compliant" designation indicates that the listed models do not contain the six hazardous substances covered by the RoHS Directive.

Reference: The following standards are used to determine compliance for the six substances.

- Lead: 1,000 ppm max.
- Mercury: 1,000 ppm max.
- Cadmium: 100 ppm max.
- Hexavalent chromium: 1,000 ppm max.
- PBB: 1,000 ppm max.
- PBDE: 1,000 ppm max.

● Environment for Storage and Use

To prevent discoloration of the terminals and other problems during storage, do not store the switch in locations subject to the following conditions.

1. High temperatures or humidity
2. Corrosive gases
3. Direct sunlight

Also, the switch is not waterproof or splash-resistant. Do not install or use the switch in locations that are subject to contact with water.

Do not subject the switch to freezing or condensation.

● Packing

100 per plastoc bag.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. A171-E1-01 **In the interest of product improvement, specifications are subject to change without notice.**

OMRON Corporation

Electronic Components Company

Switch Division

Manual Switch Department

Shiokoji Horikawa, Shimogyo-ku,

Kyoto, 600-8530 Japan

Tel: (81)75-344-7096/Fax: (81)75-344-7188

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