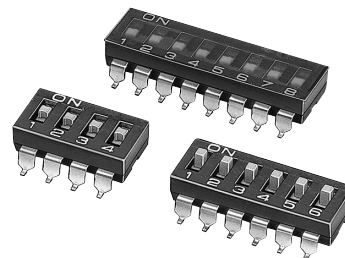


# DIP Switch A6S-H

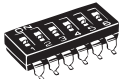
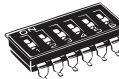
## A6S Model Upgraded to Surface-mounting Type with Increased Solder Heat Resistance

- Designed to enable replacement of previous (A6S) model, featuring the same dimensions and improved solder heat resistance (peak solder temperature: 260°C).
- Gold-plated twin contacts and a slide-type, self-cleaning mechanism ensure high reliability.
- Washable models with seal tape available.
- Embossed taping models available for automatic mounting. SQ reel (small reel) also available.
- RoHS Compliant.



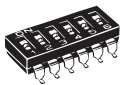
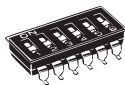
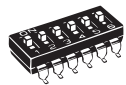
## Ordering Information

### ■ Models in Stick Packages

| No. of poles | Quantity per tube | Flat                                                                               |                                                                                     | Raised     |
|--------------|-------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------|
|              |                   | Standard                                                                           | With seal tape                                                                      |            |
|              |                   |  |  |            |
| 1            | 130               | A6S-1101-H                                                                         | A6S-1102-H                                                                          | A6S-1104-H |
| 2            | 76                | A6S-2101-H                                                                         | A6S-2102-H                                                                          | A6S-2104-H |
| 3            | 55                | A6S-3101-H                                                                         | A6S-3102-H                                                                          | A6S-3104-H |
| 4            | 42                | A6S-4101-H                                                                         | A6S-4102-H                                                                          | A6S-4104-H |
| 5            | 35                | A6S-5101-H                                                                         | A6S-5102-H                                                                          | A6S-5104-H |
| 6            | 28                | A6S-6101-H                                                                         | A6S-6102-H                                                                          | A6S-6104-H |
| 7            | 25                | A6S-7101-H                                                                         | A6S-7102-H                                                                          | A6S-7104-H |
| 8            | 22                | A6S-8101-H                                                                         | A6S-8102-H                                                                          | A6S-8104-H |
| 9            | 20                | A6S-9101-H                                                                         | A6S-9102-H                                                                          | A6S-9104-H |
| 10           | 10                | A6S-0101-H                                                                         | A6S-0102-H                                                                          | A6S-0104-H |

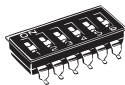
**Note:** 1) Orders must be made in integral multiples of the quantities given for each stick.  
2) Switches cannot be water washed.

## ■ Models in Embossed Taping Packages (Standard Packing)

| No. of poles | Flat                                                                              |                   |                                                                                   |                   | Raised                                                                              |                   |
|--------------|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|
|              | Standard                                                                          |                   | With seal tape                                                                    |                   |                                                                                     |                   |
|              |  |                   |  |                   |  |                   |
|              |                                                                                   | Quantity per reel |                                                                                   | Quantity per reel |                                                                                     | Quantity per reel |
| 1            | A6S-1101-PH                                                                       | 800               | A6S-1102-PH                                                                       | 800               | A6S-1104-PH                                                                         | 800               |
| 2            | A6S-2101-PH                                                                       | 900               | A6S-2102-PH                                                                       | 900               | A6S-2104-PH                                                                         | 700               |
| 3            | A6S-3101-PH                                                                       |                   | A6S-3102-PH                                                                       |                   | ---                                                                                 | ---               |
| 4            | A6S-4101-PH                                                                       |                   | A6S-4102-PH                                                                       |                   | A6S-4104-PH                                                                         | 700               |
| 5            | ---                                                                               |                   | A6S-5102-PH                                                                       |                   | A6S-5104-PH                                                                         | 800               |
| 6            | ---                                                                               |                   | A6S-6102-PH                                                                       |                   | A6S-6104-PH                                                                         | 700               |
| 7            | A6S-7101-PH                                                                       |                   | A6S-7102-PH                                                                       |                   | ---                                                                                 | ---               |
| 8            | A6S-8101-PH                                                                       |                   | A6S-8102-PH                                                                       |                   | A6S-8104-PH                                                                         | 700               |
| 9            | ---                                                                               |                   | A6S-9102-PH                                                                       |                   | ---                                                                                 | ---               |
| 10           | ---                                                                               |                   | A6S-0102-PH                                                                       |                   | ---                                                                                 | ---               |

**Note:** 1) Orders must be made in integral multiples of the quantities given for each package. Switches are not sold individually.  
2) Switches cannot be water washed.

## ■ Models in Embossed Taping Packages (Small Quantity Reel)

| No. of poles | Flat                                                                              |                   |                                                                                   |                   | Raised                                                                              |                   |
|--------------|-----------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|
|              | Standard                                                                          |                   | With seal tape                                                                    |                   |                                                                                     |                   |
|              |  |                   |  |                   |  |                   |
|              |                                                                                   | Quantity per reel |                                                                                   | Quantity per reel |                                                                                     | Quantity per reel |
| 2            | ---                                                                               | 400               | A6S-2102-PMH                                                                      | 400               | ---                                                                                 | 400               |
| 3            | A6S-3101-PMH                                                                      |                   | ---                                                                               |                   | ---                                                                                 |                   |
| 4            | A6S-4101-PMH                                                                      |                   | A6S-4102-PMH                                                                      |                   | A6S-4104-PMH                                                                        |                   |
| 6            | A6S-6101-PMH                                                                      |                   | A6S-6102-PMH                                                                      |                   | A6S-6104-PMH                                                                        |                   |
| 8            | A6S-8101-PMH                                                                      |                   | A6S-8102-PMH                                                                      |                   | A6S-8104-PMH                                                                        |                   |
| 10           | A6S-0101-PMH                                                                      |                   | A6S-0102-PMH                                                                      |                   | A6S-0104-PMH                                                                        |                   |

**Note:** 1) Orders must be made in integral multiples of the quantities given for each package. Switches are not sold individually.  
2) Switches cannot be water washed.

## Specifications

### ■ Ratings/Characteristics

|                               |                        |                                                                                           |
|-------------------------------|------------------------|-------------------------------------------------------------------------------------------|
| Switching capacity            |                        | 25 mA at 24 VDC                                                                           |
| Minimum permissible load      |                        | 10 $\mu$ A at 3.5 VDC                                                                     |
| Contact resistance            |                        | 200 m $\Omega$ max.                                                                       |
| Insulation resistance         |                        | 100 M $\Omega$ min. (at 250 VDC)                                                          |
| Dielectric strength           |                        | 500 VAC for 1 min. between terminals                                                      |
| Operating force               |                        | 30 to 1,000 gf (0.3 to 9.8 N)                                                             |
| Vibration resistance          | Malfunction durability | 10 to 55 Hz, 1.5-mm double amplitude                                                      |
| Shock resistance              | Malfunction durability | 300 m/s <sup>2</sup> min. (Approx. 30G min.)                                              |
| Life expectancy               | Mechanical             | 1,000 operations min.                                                                     |
|                               | Electrical             | 1,000 operations min.                                                                     |
| Ambient operating temperature |                        | -20°C to 70°C at 60% R.H. max. (with no icing or condensation)                            |
| Ambient operating humidity    |                        | 35% to 90% (at 5 to 35°C)                                                                 |
| Weight                        |                        | 0.25 g (2 poles), 0.41 g (4 poles), 0.58 g (6 poles), 0.73 g (8 poles), 0.87 g (10 poles) |

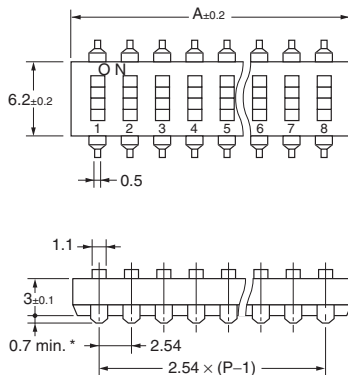
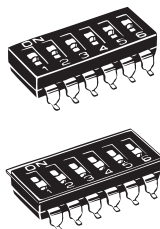
**Note:** Data shown are of initial value

# Dimensions

**Note:** 1. All units are in millimeters unless otherwise indicated.  
2. Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

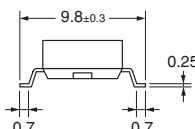
## ■ Flat Actuator with SMT Terminal Standard/With Seal Tape

A6S-□101-H  
A6S-□102-H

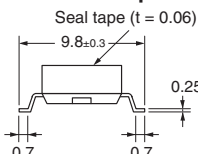


\* One terminal is 0 to 0.15 mm

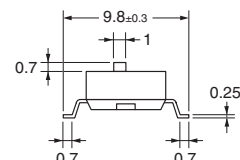
**Flat Actuator  
Standard**



**Flat Actuator  
With Seal Tape**

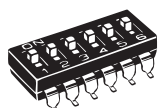


**Raised Actuator**



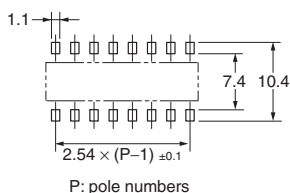
## Raised Actuator with SMT Terminal

A6S-□104-H

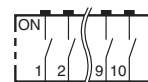


| No. of poles | Model         |                |                 | Dimension A |
|--------------|---------------|----------------|-----------------|-------------|
|              | Flat Actuator |                | Raised Actuator |             |
|              | Standard      | With Seal Tape |                 |             |
| 1            | A6S-1101-H    | A6S-1102-H     | A6S-1104-H      | 3.48        |
| 2            | A6S-2101-H    | A6S-2102-H     | A6S-2104-H      | 6.02        |
| 3            | A6S-3101-H    | A6S-3102-H     | A6S-3104-H      | 8.56        |
| 4            | A6S-4101-H    | A6S-4102-H     | A6S-4104-H      | 11.10       |
| 5            | A6S-5101-H    | A6S-5102-H     | A6S-5104-H      | 13.64       |
| 6            | A6S-6101-H    | A6S-6102-H     | A6S-6104-H      | 16.18       |
| 7            | A6S-7101-H    | A6S-7102-H     | A6S-7104-H      | 18.72       |
| 8            | A6S-8101-H    | A6S-8102-H     | A6S-8104-H      | 21.26       |
| 9            | A6S-9101-H    | A6S-9102-H     | A6S-9104-H      | 23.80       |
| 10           | A6S-0101-H    | A6S-0102-H     | A6S-0104-H      | 26.34       |

**Mounting pads  
(top view)**



**Internal connections  
(top view)**



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**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

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

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