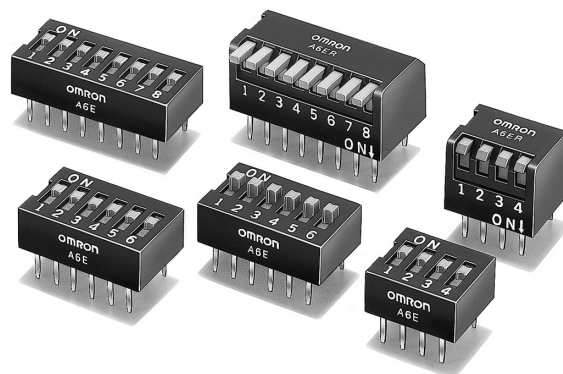


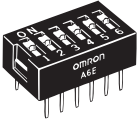
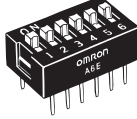
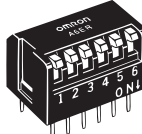
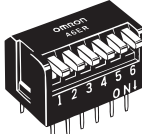
# DIP Switch A6E/A6ER

## Box-shaped DIP Switch with Through hole Terminals

- The bottom is sealed with resin to prevent flux penetration.
- Side actuated models feature short or long actuators (levers).
- Gold-plated contacts ensure high reliability.
- RoHS Compliant



## Ordering Information

| No. of poles | Quantity per Tube | Flat actuated                                                                      | Raised actuator                                                                    | Quantity per Tube | Side actuated (short-lever)                                                          | Side actuated (long-lever)                                                           |
|--------------|-------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|              |                   |  |  |                   |  |  |
| 2            | 73                | A6E-2101                                                                           | A6E-2104                                                                           | 70                | A6ER-2101                                                                            | A6ER-2104                                                                            |
| 3            | 52                | A6E-3101                                                                           | A6E-3104                                                                           | 50                | A6ER-3101                                                                            | A6ER-3104                                                                            |
| 4            | 40                | A6E-4101                                                                           | A6E-4104                                                                           | 39                | A6ER-4101                                                                            | A6ER-4104                                                                            |
| 5            | 33                | A6E-5101                                                                           | A6E-5104                                                                           | 32                | A6ER-5101                                                                            | A6ER-5104                                                                            |
| 6            | 28                | A6E-6101                                                                           | A6E-6104                                                                           | 27                | A6ER-6101                                                                            | A6ER-6104                                                                            |
| 7            | 24                | A6E-7101                                                                           | A6E-7104                                                                           | 24                | A6ER-7101                                                                            | A6ER-7104                                                                            |
| 8            | 21                | A6E-8101                                                                           | A6E-8104                                                                           | 21                | A6ER-8101                                                                            | A6ER-8104                                                                            |
| 9            | 19                | A6E-9101                                                                           | A6E-9104                                                                           | 19                | A6ER-9101                                                                            | A6ER-9104                                                                            |
| 10           | 17                | A6E-0101                                                                           | A6E-0104                                                                           | 17                | A6ER-0101                                                                            | A6ER-0104                                                                            |

**Important Note:** Switches cannot be water-washed.

## Specifications

### ■ 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% RH max. (with no icing or condensation)                                                                                                                                      |
| Ambient operating humidity    |                        | 35% to 95% (at 5 to 35°C)                                                                                                                                                                         |
| Weight                        |                        | A6E: 0.66 g (2 poles), 1.00 g (4 poles), 1.32 g (6 poles), 1.65 g (8 poles), 1.98 g (10 poles)<br>A6ER: 1.01 g (2 poles), 1.51 g (4 poles), 2.00 g (6 poles), 2.51 g (8 poles), 3.02 g (10 poles) |

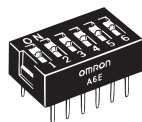
**Note:** Data shown are of initial value.

# Dimensions

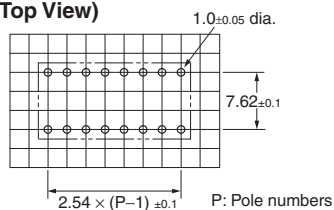
- Note:** 1. All units are in millimeters unless otherwise indicated.  
2. Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

## Flat Actuator

A6E-□101



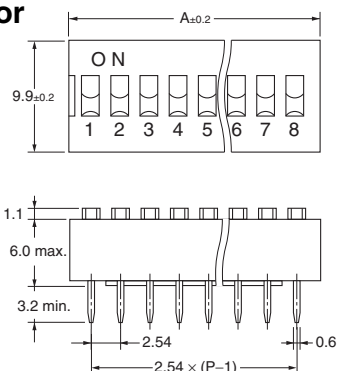
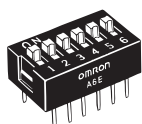
PCB Dimensions  
(Top View)



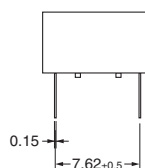
| No. of poles | Model         |                 | Dimension A |
|--------------|---------------|-----------------|-------------|
|              | Flat Actuator | Raised Actuator |             |
| 2            | A6E-2101      | A6E-2104        | 6.64        |
| 3            | A6E-3101      | A6E-3104        | 9.18        |
| 4            | A6E-4101      | A6E-4104        | 11.72       |
| 5            | A6E-5101      | A6E-5104        | 14.26       |
| 6            | A6E-6101      | A6E-6104        | 16.80       |
| 7            | A6E-7101      | A6E-7104        | 19.34       |
| 8            | A6E-8101      | A6E-8104        | 21.88       |
| 9            | A6E-9101      | A6E-9104        | 24.42       |
| 10           | A6E-0101      | A6E-0104        | 26.96       |

## Raised Actuator

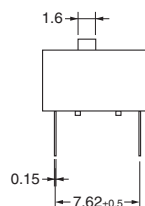
A6E-□104



Flat Actuator

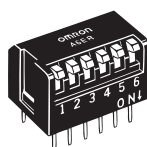


Raised Actuator

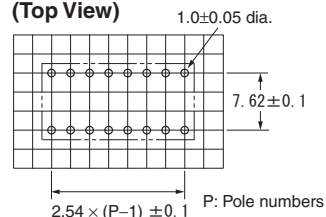


## Side Actuated (short-lever)

A6ER-□102



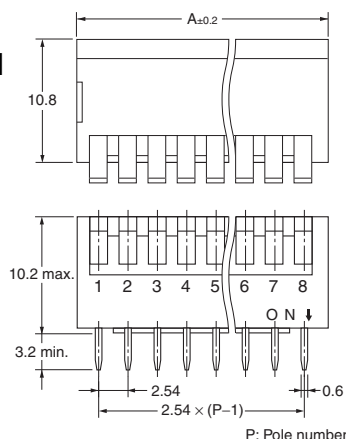
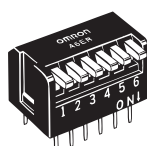
PCB Dimensions  
(Top View)



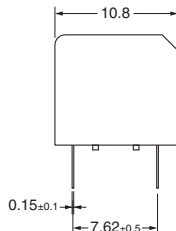
| No. of poles | Model                       |                            | Dimension A |
|--------------|-----------------------------|----------------------------|-------------|
|              | Side actuated (short-lever) | Side actuated (long-lever) |             |
| 2            | A6ER-2101                   | A6ER-2104                  | 6.64        |
| 3            | A6ER-3101                   | A6ER-3104                  | 9.18        |
| 4            | A6ER-4101                   | A6ER-4104                  | 11.72       |
| 5            | A6ER-5101                   | A6ER-5104                  | 14.26       |
| 6            | A6ER-6101                   | A6ER-6104                  | 16.80       |
| 7            | A6ER-7101                   | A6ER-7104                  | 19.34       |
| 8            | A6ER-8101                   | A6ER-8104                  | 21.88       |
| 9            | A6ER-9101                   | A6ER-9104                  | 24.42       |
| 10           | A6ER-0101                   | A6ER-0104                  | 26.96       |

## Side Actuated (long-lever)

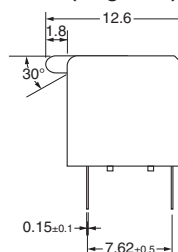
A6ER-□104



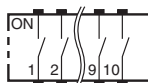
Side Actuator (short-lever)



Side Actuator (long-lever)



Internal connections  
(top view)





All sales are subject to Omron Electronic Components LLC standard terms and conditions of sale, which can be found at [http://www.components.omron.com/components/web/webfiles.nsf/sales\\_terms.html](http://www.components.omron.com/components/web/webfiles.nsf/sales_terms.html)

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

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

---

**OMRON**<sup>®</sup>

**OMRON ELECTRONIC  
COMPONENTS LLC**

55 E. Commerce Drive, Suite B  
Schaumburg, IL 60173

**847-882-2288**

**OMRON ON-LINE**

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

Cat. No. X303-E-1

11/10

Specifications subject to change without notice

Printed in USA