

#### Low-cost DIP Switch

- The sealed bottom prevents flux penetration.
- A variety of models with short or long actuators (levers) available.



#### Ordering Information

Type (striker color)		Flat actuator (Yellow)	Raised actuator (Yellow)	Type	Side actuator (short-lever) (Yellow)	Side actuator (long-lever) (Yellow)
No. of poles	Quantity per stick	DIP terminal	DIP terminal		DIP terminal	DIP terminal
		2	73	A6E-2101	A6E-2104	70
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

#### Specifications

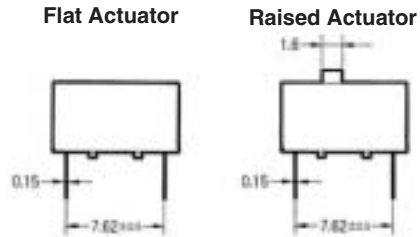
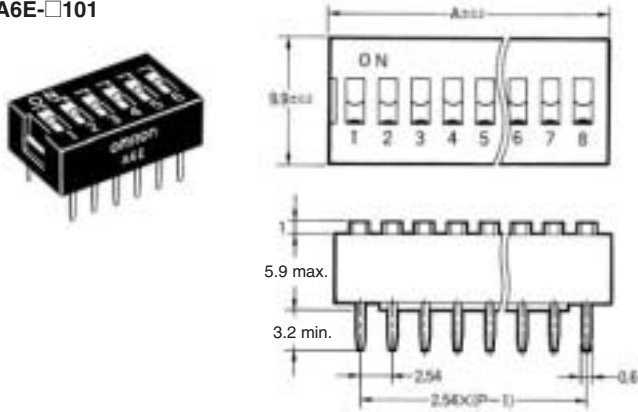
##### ■ Ratings/Characteristics

Switching capacity	25 mA at 24 VDC, 10 $\mu$ A (minimum current) at 3.5 VDC
Ambient temperature	Operating: -20°C to 70°C (with no icing)
Ambient humidity	Operating: 35% to 90%
Insulation resistance	100 M $\Omega$ min. (at 250 VDC)
Contact resistance	200 m $\Omega$ max. (initial value)
Dielectric strength	500 VAC for 1 min between terminals of the same polarity, and between terminals of different polarity
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s <sup>2</sup> min.
Life expectancy	Mechanical: 1,000 operations min. Electrical: 1,000 operations min.
Operating force	0.29 N min. {30 gf}
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) 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)

# 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 DIP Terminal A6E-□101

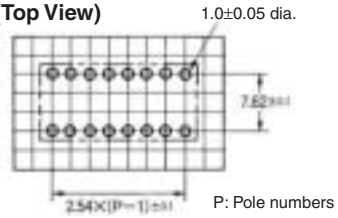


## Raised Actuator with DIP Terminal A6E-□104



P: Pole numbers

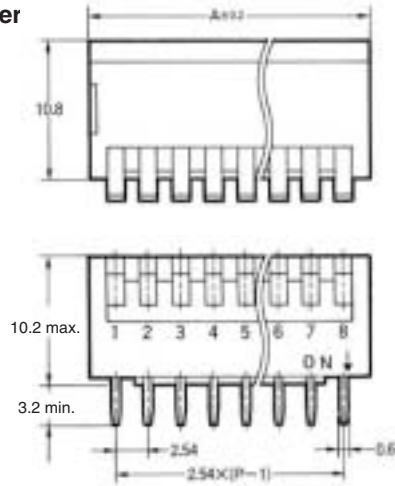
### PCB Dimensions (Top View)



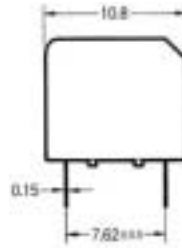
P: Pole numbers

No. of poles	Model		Dimension A
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

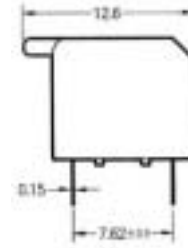
**DIP Terminal  
Side Actuator (short-lever)  
A6ER-□101**



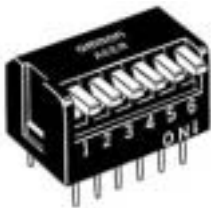
**Side Actuator  
(long-lever)**



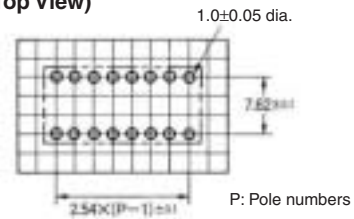
**Side Actuator  
(short-lever)**



**Side Actuator (long-lever)  
A6ER-□104**



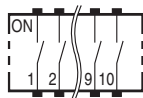
**PCB Dimensions  
(Top View)**



No. of poles	Model		Dimension A
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

## Installation

### ■ Internal Connections (Top View)



## Precautions

Be sure to refer to General Precautions on pages 4 to 6 for details on proper use.

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**  
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.