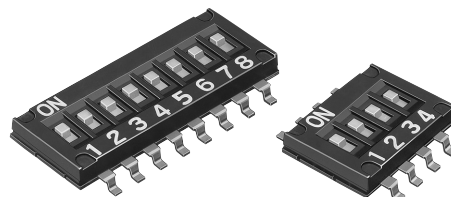


# Half-pitch DIP Switch A6H

## Ultra-low Profile, Half-pitch, Surface-mounting DIP Switch

- Very low profile of 1.55 mm
- Half-pitch (1.27-mm) design allows greater compactness and reduces mounting space by 63%. (compared with conventional models)
- Washable, seal tape models available
- Embossed taping models available
- RoHS Compliant



## Ordering Information

| Number of poles | Part numbers      |     |                           |                       |     |                           |
|-----------------|-------------------|-----|---------------------------|-----------------------|-----|---------------------------|
|                 | Standard models   |     |                           | Models with seal tape |     |                           |
|                 | Tube packaging    |     | Embossed taping packaging | Tube packaging        |     | Embossed taping packaging |
|                 | Quantity per tube |     | Quantity per reel         | Quantity per tube     |     | Quantity per reel         |
| 2               | A6H-2101          | 125 | A6H-2101-P                | A6H-2102              | 125 | A6H-2102-P                |
| 4               | A6H-4101          | 75  | A6H-4101-P                | A6H-4102              | 75  | A6H-4102-P                |
| 6               | A6H-6101          | 54  | A6H-6101-P                | A6H-6102              | 54  | A6H-6102-P                |
| 8               | A6H-8101          | 40  | A6H-8101-P                | A6H-8102              | 40  | A6H-8102-P                |
| 10              | A6H-0101          | 33  | A6H-0101-P                | A6H-0102              | 33  | A6H-0102-P                |

**Note:** 1. Small reels of 500 pieces are also available. Order "-PM" version instead of "-P".  
2. 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 100 VDC)                                                          |
| Dielectric strength           |                        | 300 VAC for 1 min between terminals                                                       |
| Operating force               |                        | 30 to 500 gf ( 0.3 to 4.9 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.                                                                 |
| Service life                  | Mechanical             | 1,000 operations min.                                                                     |
|                               | Electrical             | 1,000 operations min.                                                                     |
| Ambient operating temperature |                        | -20 to 70°C at 60% RH max. (with no icing or condensation)                                |
| Ambient operating humidity    |                        | 35% to 95% (at 5 to 35°C)                                                                 |
| Weight                        |                        | 0.06 g (2 poles), 0.09 g (4 poles), 0.12 g (6 poles), 0.15 g (8 poles), 0.18 g (10 poles) |

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

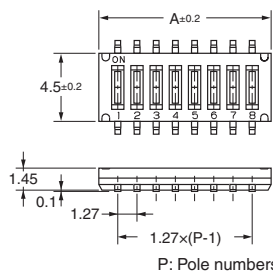
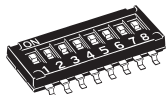
# Dimensions

**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.

## ■ Standard

A6H-□101

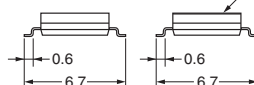
A6H-□101-P



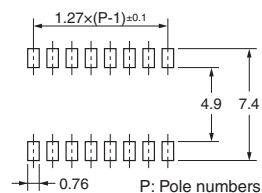
Standard

With seal tape

Seal tape (t=0.05)



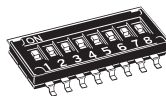
## Dimensions of PCB Pad (Top View)



## ■ With Seal Tape

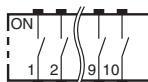
A6H-□102

A6H-□102-P



| No. of poles | Model    |                | Dimension A |
|--------------|----------|----------------|-------------|
|              | Standard | With seal tape |             |
| 2            | A6H-2101 | A6H-2102       | 3.77        |
| 4            | A6H-4101 | A6H-4102       | 6.31        |
| 6            | A6H-6101 | A6H-6102       | 8.85        |
| 8            | A6H-8101 | A6H-8102       | 11.39       |
| 10           | A6H-0101 | A6H-0102       | 13.93       |

## 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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