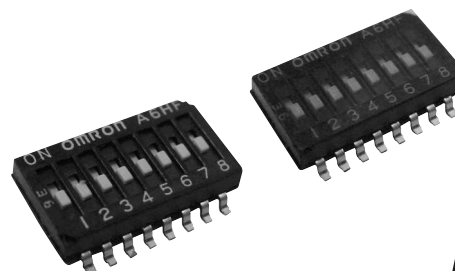


# Half-pitch DIP Switch A6HF

Half-pitch DIP Switch with a height of 2.3mm.

- Gold-plated twin contacts will ensure high reliability.
- Embossed tapping models available for automatic mounting. (small reel also available)
- Temperature-resistant resin allows at peak reflow temperatures of 260°C.
- Washable, seal tape models available.
- RoHS Compliant.



**NEW**

## Ordering Information

Number of poles	Part Numbers			
	Tube Packaging		Embossed tapping packaging	
		Quantity per tube		Quantity per reel
2	A6HF-2102	125	A6HF-2102-P	2,000
4	A6HF-4102	70	A6HF-4102-P	
6	A6HF-6102	50	A6HF-6102-P	
8	A6HF-8102	40	A6HF-8102-P	
10	A6HF-0102	30	A6HF-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

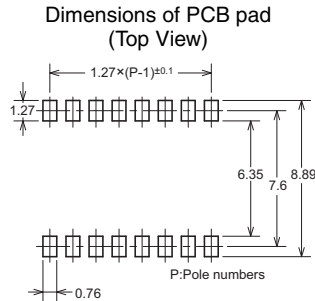
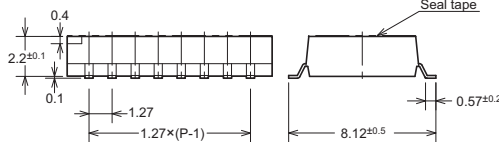
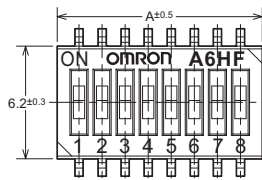
<b>Switching Capacity</b>		25 mA at 24 VDC
<b>Minimum permissible load</b>		10 $\mu$ A (minimum current) at 3.5 VDC
<b>Contact resistance</b>		200 m $\Omega$ max. (initial value)
<b>Insulation resistance</b>		100 M $\Omega$ min. (at 100 VDC)
<b>Dielectric strength</b>		300 VAC for 1 min between terminals
<b>Operating force</b>		29.5 to 500 gf (0.29 to 4.9 N)
<b>Vibration resistance</b>	<b>Malfunction durability</b>	10 to 55 Hz, 1.5-mm double amplitude
<b>Shock resistance</b>	<b>Malfunction durability</b>	490 m/s <sup>2</sup> min.
<b>Service life</b>	<b>Electrical</b>	1,000 operations min.
<b>Ambient operating temperature</b>		-30 to 85°C at 60% RH max. (with no icing or condensation)
<b>Ambient operating humidity</b>		35% to 95% (at 5 to 35°C)
<b>Weight</b>		0.08g (2 poles), 0.13g (4 poles), 0.19g (6 poles), 0.25 g (8 poles), 0.3g (10 poles)

Note: Data shown are of initial value.

# Dimensions

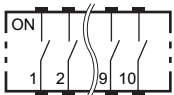
- Note:** 1. All units are in millimeters unless otherwise indicated.  
 2. Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

## Standard A6HF-□102



No. of poles	Models	Dimension A
2	A6HF-2102	3.67
4	A6HF-4102	6.21
6	A6HF-6102	8.75
8	A6HF-8102	11.29
10	A6HF-0102	13.83

## Internal Connections (Top View)

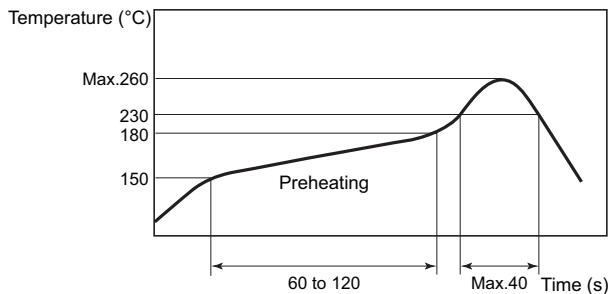


# Precautions

## Correct Use

### Soldering

- Set the Switch to OFF before soldering.
- Observe the following conditions for reflow soldering.  
(Measurement location: Top of Switch)

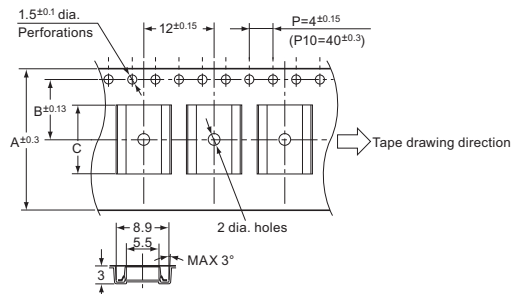


- Do not manually solder the switches.
- Subject the switches to a reflow solder process only once.

### Washing

A6HF cannot be washed using ultrasonic cleaning. It is possible to wipe these models or dip them into alcohol based washing agents for one minute maximum.

## Packing Specifications

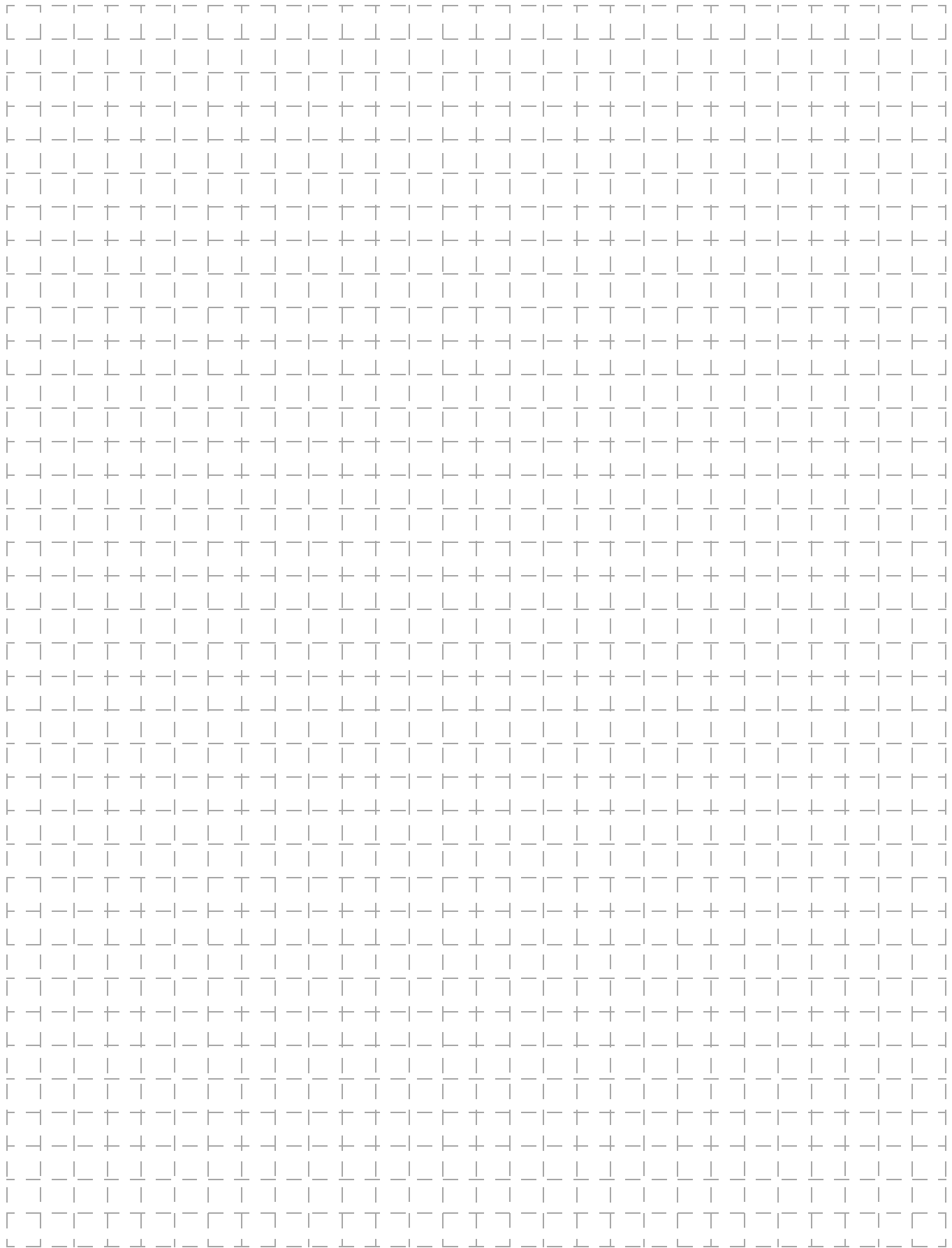


Dimension	No. of poles				
	2	4	6	8	10
A ± 0.3	16	16	16	24	24
B ± 0.13	7.5	7.5	7.5	11.5	11.5
C	(4.45)	(7.0)	(9.55)	(12.1)	(14.6)

## Environment for Storage and Use

To prevent discoloration of the terminals and other problems during storage, do not store the A6HF in locations subject to the following conditions.

- High temperatures or humidity/Corrosive gases
- Direct sunlight/Contact with water



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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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