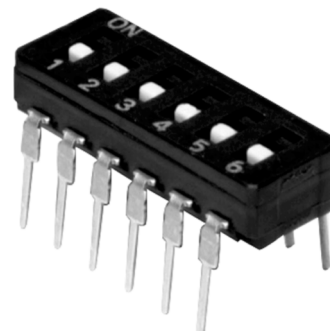


# DIP Switch A6D/DR

## Space-saving, Subminiature DIP Switch Offers Both Sealed and Unsealed Construction

- Completely sealed units allow immersion-cleaning without taping
- Designed to standards of DIL-IC; top actuated types are auto insertable
- Bifurcated movable contacts
- Subminiature size to save space by reducing the volume to 41% and mounting surface to 67% of conventional type
- Smooth, sure switching action
- RoHS Compliant



## Ordering Information

Type	No. of poles	Part number		
		Top actuated	Raised actuator	Side actuated
Sealed	2	A6D-2100	A6D-2103	A6DR-2100
	4	A6D-4100	A6D-4103	A6DR-4100
	6	A6D-6100	A6D-6103	A6DR-6100
	8	A6D-8100	A6D-8103	A6DR-8100
	10	A6D-0100	A6D-0103	A6DR-0100

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

## Specifications

### ■ Characteristics

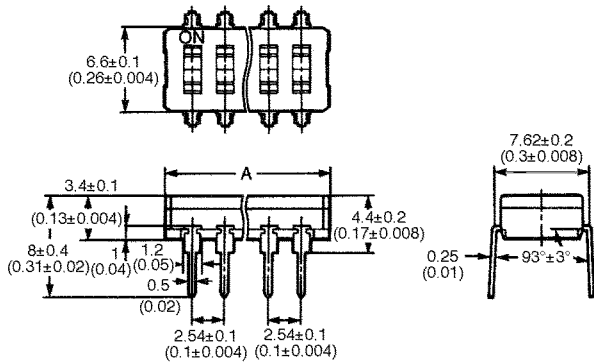
Switching capacity		100 mA, 5 VDC; 30 mA, 30 VDC
Permissible load		10 $\mu$ A, 3.5 VDC min.
Carry current		100 mA max.
Contact resistance		100 M $\Omega$ max.
Insulation resistance		10 M $\Omega$ min. (at 250 VDC)
Dielectric strength		500 VAC for 1 minute
Operating force		A6D: 500 g max., A6DR: 500 g max.
Vibration	Malfunction durability	10 to 55 Hz, 1.5 mm double amplitude
Shock	Malfunction durability	Approx. 300 m/s <sup>2</sup> (30 G)
Materials	Base/Cover	PBT (Polybutylene terephthalate)
	Actuator	PPT (Polyphenylene terephthalate)
	Internal seal	Acryl nitril butadiene rubber
	Movable contact	Beryllium copper
	Terminal	42-alloy plate (nickel-iron alloy)
Ambient temperature	Operating	-20° to 70°C
Humidity		35% to 90% RH
Service life	Mechanical	5,000 operations min.
	Electrical	2,000 operations min.
Weight	A6D (Top actuated)	2-pin: 0.25 g, 3-pin: 0.35 g, 4-pin: 0.45 g, 5-pin: 0.55 g, 6-pin: 0.65 g, 7-pin: 0.75 g, 8-pin: 0.80 g, 9-pin: 0.90 g, 10-pin: 1.0 g
	A6DR (Side actuated)	2-pin: 0.4 g, 4-pin: 0.8 g, 6-pin: 1.2 g, 8-pin: 1.7 g, 10-pin: 2.2 g

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

# Dimensions

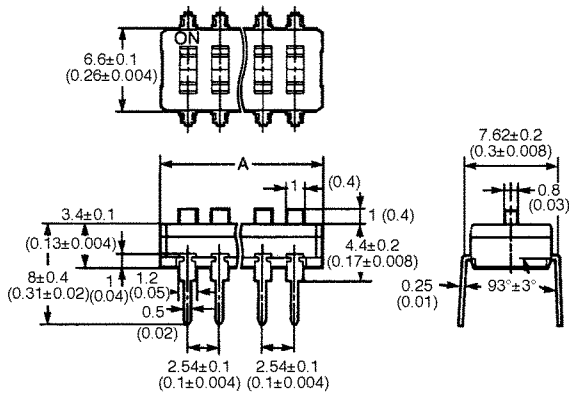
Unit: mm (inch)

## ■ A6D-□100 (top actuated type)



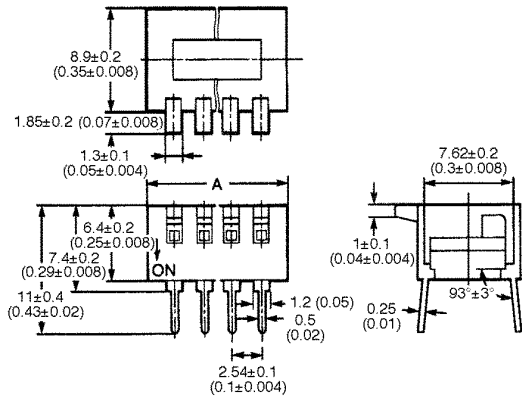
Sealed Part number	Dimensions A ± 0.2 (0.008)
A6D-2100	7.1 (0.28)
A6D-4100	12.2 (0.48)
A6D-6100	17.3 (0.68)
A6D-8100	22.4 (0.88)
A6D-0100	27.4 (1.08)

## ■ A6D-□103 (raised actuator type)



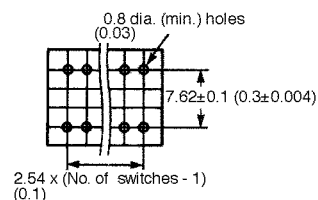
Part number	Dimensions A ± 0.2 (0.008)
A6D-2103	7.1 (0.28)
A6D-4103	12.2 (0.48)
A6D-6103	17.3 (0.68)
A6D-8103	22.4 (0.88)
A6D-0103	27.4 (1.08)

## ■ A6DR-□100 (side actuated type)

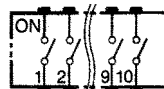


Part number	Dimensions A ± 0.2 (0.008)
A6DR-2100	7.1 (0.28)
A6DR-4100	12.2 (0.48)
A6DR-6100	17.3 (0.68)
A6DR-8100	22.4 (0.88)
A6DR-0100	27.4 (1.08)

### Internal connections (top view)



### Mounting holes (bottom view)



**Note:** Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

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01/07

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