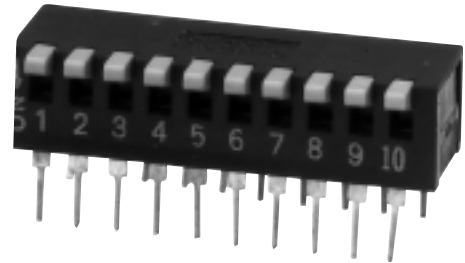


### Space-saving, Subminiature Dip Switch Offers Both Sealed and Unsealed Construction

- 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



### Ordering Information

| Type     | No. of pins | Part Number     |                 |                  |
|----------|-------------|-----------------|-----------------|------------------|
|          |             | Top actuated    | Raised actuator | Side actuated    |
| Sealed   | 2           | <b>A6D-2100</b> | <b>A6D-2103</b> | <b>A6DR-2100</b> |
|          | 4           | <b>A6D-4100</b> | <b>A6D-4103</b> | <b>A6DR-4100</b> |
|          | 6           | <b>A6D-6100</b> | <b>A6D-6103</b> | <b>A6DR-6100</b> |
|          | 8           | <b>A6D-8100</b> | <b>A6D-8103</b> | <b>A6DR-8100</b> |
|          | 10          | <b>A6D-0100</b> | <b>A6D-0103</b> | <b>A6DR-0100</b> |
| Unsealed | 4           | <b>A6D-4101</b> | –               | –                |
|          | 6           | <b>A6D-6101</b> | –               | –                |
|          | 8           | <b>A6D-8101</b> | –               | –                |

### Characteristics

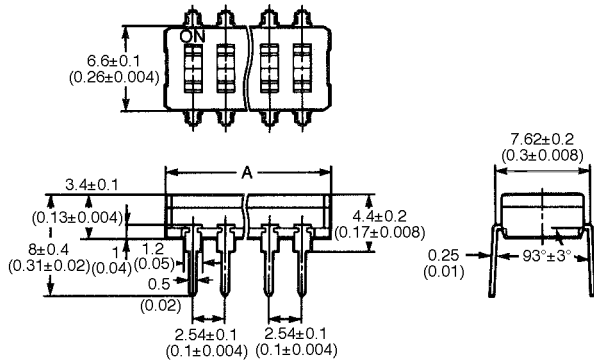
|                       |                        |                                                                                                                                       |
|-----------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 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 |                        | 100 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

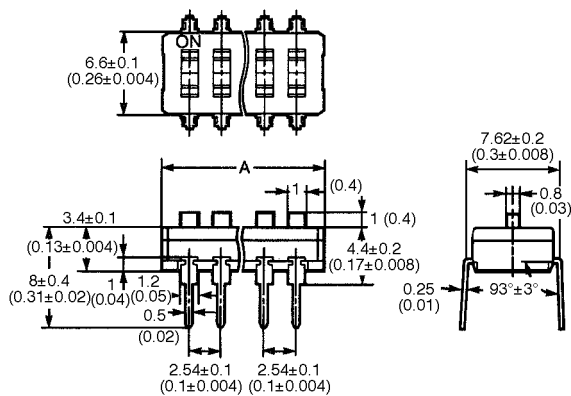
Unit: mm (inch)

## A6D-□100 (top actuated type)



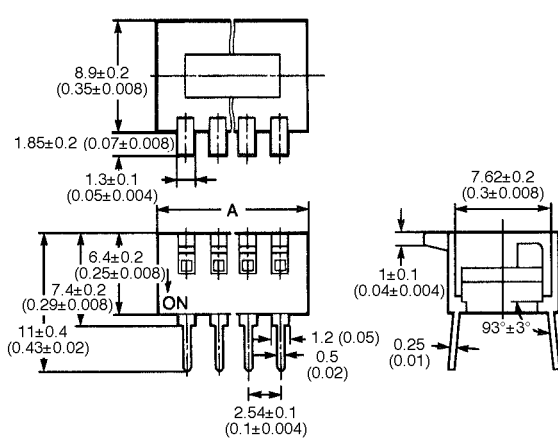
| No. of pins | Sealed model | Unsealed model | Dimensions<br>A ± 0.2 (0.008) |
|-------------|--------------|----------------|-------------------------------|
| 2           | A6D-2100     | —              | 7.1 (0.28)                    |
| 3           | A6D-3100     | —              | 9.7 (0.38)                    |
| 4           | A6D-4100     | A6D-4101       | 12.2 (0.48)                   |
| 5           | A6D-5100     | —              | 14.7 (0.58)                   |
| 6           | A6D-6100     | A6D-6101       | 17.3 (0.68)                   |
| 7           | A6D-7100     | —              | 19.8 (0.78)                   |
| 8           | A6D-8100     | A6D-8101       | 22.4 (0.88)                   |
| 9           | A6D-9100     | —              | 24.9 (0.98)                   |
| 10          | A6D-0100     | —              | 27.4 (1.08)                   |

## A6D-□103 (raised actuator type)



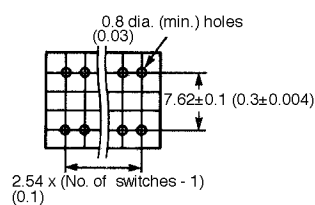
| Model    | Dimensions A ± 0.2 (0.008) |
|----------|----------------------------|
| A6D-2103 | 7.1 (0.28)                 |
| A6D-3103 | 9.7 (0.38)                 |
| A6D-4103 | 12.2 (0.48)                |
| A6D-5103 | 14.7 (0.58)                |
| A6D-6103 | 17.3 (0.68)                |
| A6D-7103 | 19.8 (0.78)                |
| A6D-8103 | 22.4 (0.88)                |
| A6D-9103 | 24.9 (0.98)                |
| A6D-0103 | 27.4 (1.08)                |

## A6DR-□100 (side actuated type)

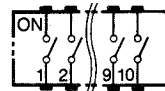


| Model     | Dimensions A ± 0.2 (0.008) |
|-----------|----------------------------|
| A6DR-2100 | 7.1 (0.28)                 |
| A6DR-4100 | 12.2 (0.48)                |
| A6DR-6100 | 17.3 (0.68)                |
| A6DR-8100 | 22.4 (0.88)                |
| A6DR-0100 | 27.4 (1.08)                |

## Internal connections (top view)



## Mounting holes (bottom view)



Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.



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