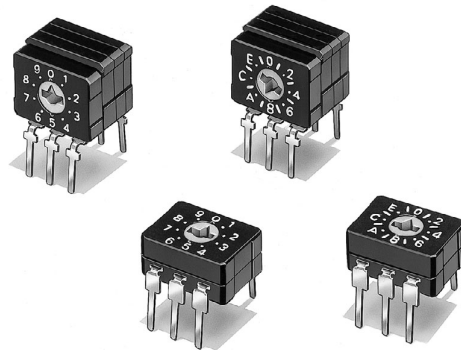


## DIP Switch (Rotary Type)

A6C/A6CV


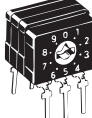
### Internally Sealed DIL-IC Type Rotary DIP Switch

- A precision rotary cam and contact driving mechanisms facilitate miniaturization.
- Reductions of 72% in height, 66% vertically, 90% horizontally and 43% in overall volume compared with the A6A allow for higher density mounting.
- Insert-molded terminals and an O-ring sealed rotor provide an airtight structure that keeps out dust, dirt and flux.
- Offset between terminal pins and side of case allows simple circuit inspection.



RoHS Compliant (Refer to page 8 for details.)

### Ordering Information

Type		Top actuated type	Side actuated type
Appearance			
No. of switching positions	Output code		
10	BCD/hexadecimal 1-2-4-8	A6C-10R (N)	A6CV-10R
16	BCD/hexadecimal 1-2-4-8	A6C-16R (N)	A6CV-16R

**Note:** A6Cs are packaged 55 units to a stick. A6CVs are packaged 100 to a box.

### Specifications

#### ■ Ratings/Characteristics

Switching capacity	1 mA to 0.1 A (switching capacity) at 5 to 30 VDC Minimum permissible load of 10 $\mu$ A (resistor load) at 3.5 VDC
Ambient temperature	Operating: -20 to 70°C (no icing)
Ambient humidity	35 to 95%
Insulation resistance	100 M $\Omega$ min. (at 250 VDC)
Contact resistance	200 m $\Omega$ max.
Dielectric strength	250 VAC for 1 minute between terminals of the same pole
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Malfunction: Approx. 300 m/s <sup>2</sup>
Life expectancy	Mechanical: 10,000 operations min. Electrical: 2,000 operations min.
Operating torque	0.98 $\times$ 10 <sup>-2</sup> N·m max.
Weight	A6C-10R (N): approx. 0.4 g A6CV-10R: approx. 0.7 g

# Output Code Tables

## 10-position Models

Type Code	A6C-10R, A6CV-10R			
	BCD/hexadecimal 1-2-4-8 code			
Position	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•

## 16-position Models

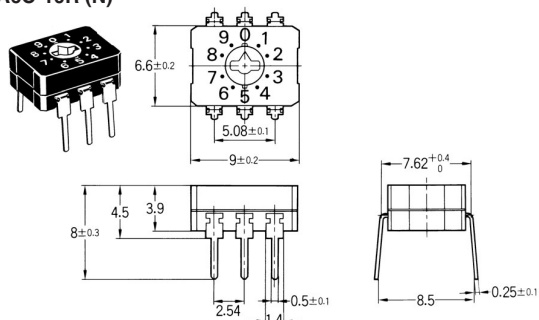
Type Code	A6C-16R, A6CV-16R			
	BCD/hexadecimal 1-2-4-8 code			
Position	1	2	4	8
0				
1	•			
2		•		
3	•	•		
4			•	
5	•		•	
6		•	•	
7	•	•	•	
8				•
9	•			•
A		•		•
B	•	•		•
C			•	•
D	•		•	•
E		•	•	•
F	•	•	•	•

Note: "•" in the above tables shows the output terminal No. that has continuity with the common terminal (C).

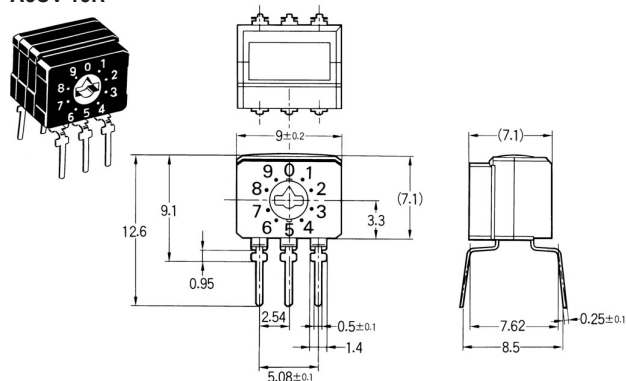
## Dimensions

Note: All units are in millimeters unless otherwise indicated.

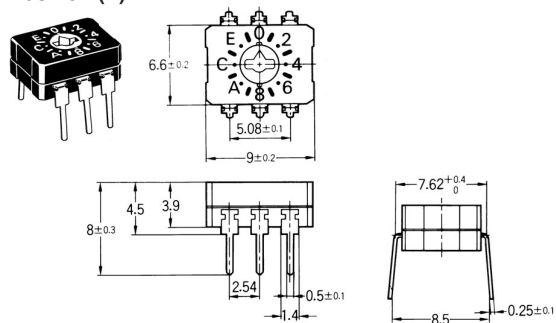
### Top Actuated, 10 Positions A6C-10R (N)



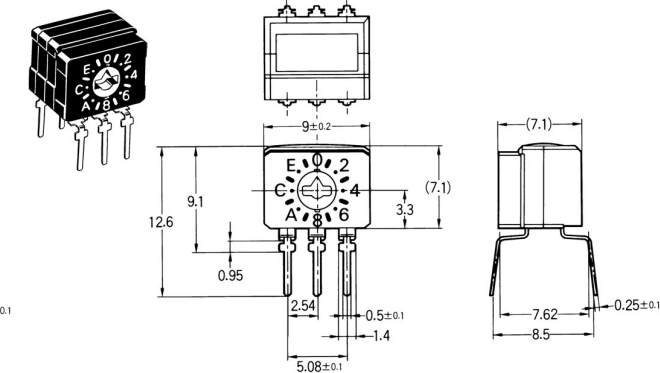
### Side Actuated, 10 Positions A6CV-10R



### Top Actuated, 16 Positions A6C-16R (N)



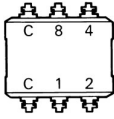
### Side Actuated, 16 Positions A6CV-16R



# Terminal Arrangement

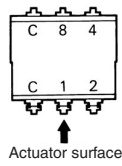
## Top Actuated Models

Terminal arrangement (top view)



## Side Actuated Models

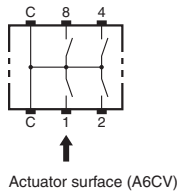
Terminal arrangement (top view)



# Installation

**Note:** All units are in millimeters unless otherwise indicated.

## Internal connections (top view)

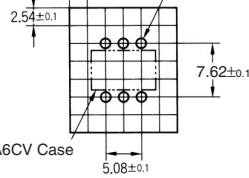


Actuator surface (A6CV)

## Mounting holes (top view)

(One-sided PCB,  $t = 1.2$  to  $1.6$ )

Six-0.8-dia. holes (0.9 dia. for automatic insertion)



A6C/A6CV Case

# Precautions

Be sure to refer to General Precautions on pages 5 to 7 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.