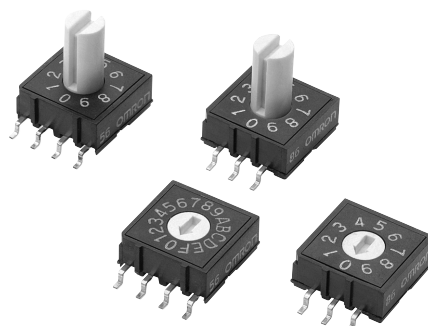


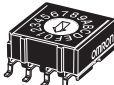
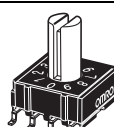
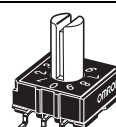
Surface-mounting Rotary DIP A6RS

Surface-mounting Rotary DIP Switches

- Temperature-resistant resin allows use in peak reflow temperatures of 260°C.
- Series includes flat and extended-shaft models.
- Two different types of terminal arrangement are available to allow flexibility in the circuit design.
- RoHS Compliant.



Ordering Information

Output code	Number of positions	Terminal arrangement	Top-actuated, flat		Top-actuated, extended shaft	
			Tube packaging	Embossed tape packaging	Tube packaging	Embossed tape packaging
						
			Quantity per tube	Quantity per reel	Quantity per tube	Quantity per reel
BCD 1-2-4-8	10	4 × 1	A6RS-101RF	48	A6RS-101RS	48
		3 × 3	A6RS-102RF		A6RS-102RS	
BCD Hexadecimal 1-2-4-8	16	4 × 1	A6RS-161RF	750	A6RS-161RS	250
		3 × 3	A6RS-162RF		A6RS-162RS	
			A6RS-101RF-P		A6RS-101RS-P	
			A6RS-102RF-P		A6RS-102RS-P	
			A6RS-161RF-P		A6RS-161RS-P	
			A6RS-162RF-P		A6RS-162RS-P	

Note: Order in multiples of the quantities given for each package (tube: 48, embossed taping: 250 or 750).

Specifications

Ratings/Characteristics

Switching Capacity	25 mA at 24 VDC
Min. Permissible Load	10 μ A at 3.5 VDC
Contact resistance	200 m Ω max.
Insulation resistance	100 M Ω min. (at 250 VDC)
Dielectric strength	250 VAC for 1 minute between terminals
Operating torque	200 g-cm max. (1.96 x 10 ⁻² N-m max.)
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Malfunction: 300 m/s ² (30G) min.
Ambient operating temperature	-25 to 80°C at 60% RH max. (with no icing or condensation)
Ambient operating humidity	35% to 95% (at 5 to 35°C)
Electrical service life	5,000 steps min.
Weight (See note 2)	Top-actuated: Approx. 0.6 g

- Note:**
1. Data shown are of initial value.
 2. Add 0.13 g for the extended-shaft version of each model
 3. Switches cannot be water washed

Output Codes

10-position Models

Type	BCD 1-2-4-8			
Terminal No. Position	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●

Note: "●" indicates that the internal switch is ON.

16-position Models

Type	BCD/hexadecimal 1-2-4-8			
Terminal No. Position	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●	●		●
C			●	●
D	●		●	●
E		●	●	●
F	●	●	●	●

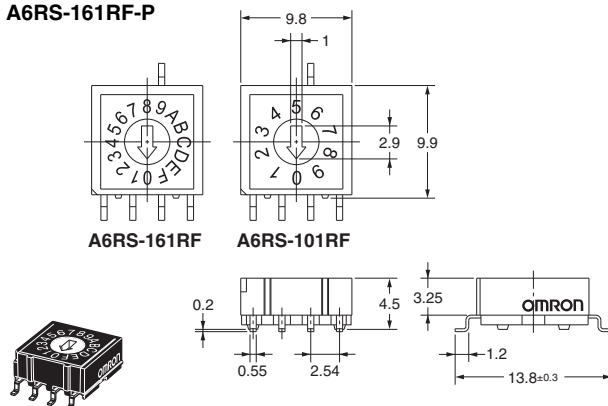
Dimensions

Note: 1. All units are in millimeters unless otherwise indicated.

2. A tolerance of ± 0.4 mm applies to the above dimensions unless otherwise specified.

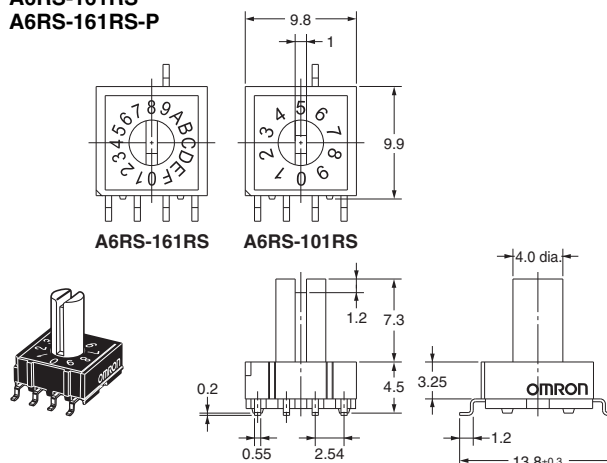
Top-actuated Flat Models with 4x1 Terminal Arrangement

A6RS-101RF
A6RS-101RF-P
A6RS-161RF
A6RS-161RF-P



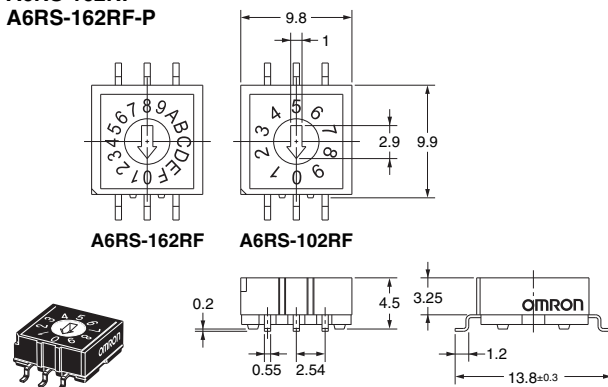
Top-actuated Extended-shaft Models with 4x1 Terminal Arrangement

A6RS-101RS
A6RS-101RS-P
A6RS-161RS
A6RS-161RS-P



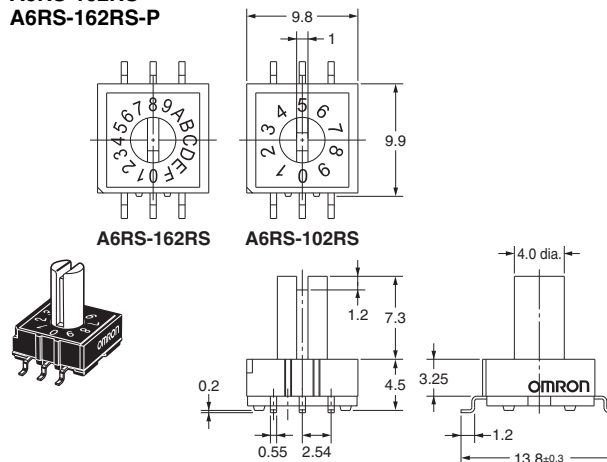
Top-actuated Flat Models with 3x3 Terminal Arrangement

A6RS-102RF
A6RS-102RF-P
A6RS-162RF
A6RS-162RF-P



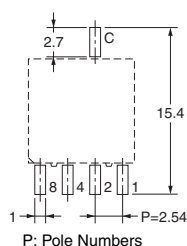
Top-actuated Extended-shaft Models with 3x3 Terminal Arrangement

A6RS-102RS
A6RS-102RS-P
A6RS-162RS
A6RS-162RS-P

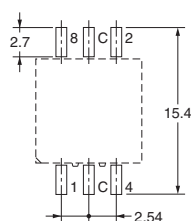


Mounting pads (Top view)

4x1 Terminal

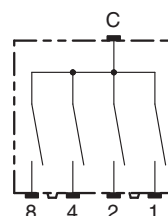


3x3 Terminal

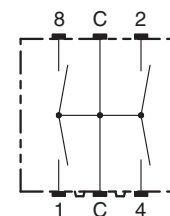


Internal connections (Top view)

4x1 Terminal



3x3 Terminal





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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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