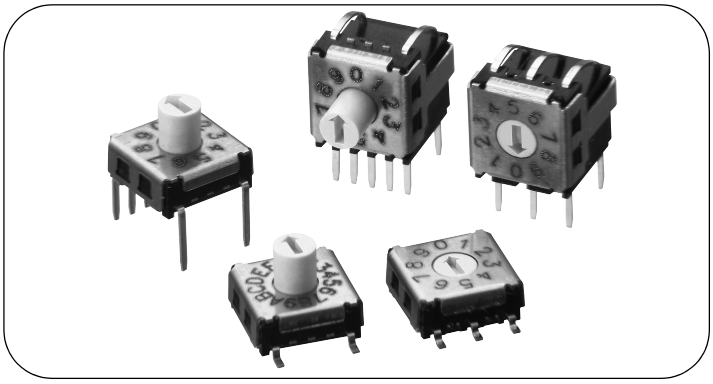
A6K/A6KS

Rotary DIP Switch

7.2 mm Square Miniature Rotary DIP Switches

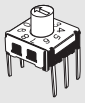
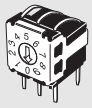
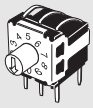
- Mounting space reduced by 50%, compared with 10 mm square types.
- Surface/through-hole mounting terminlas are available both Top and Side-actuated types.
- Gold-plated contacts ensure high reliability.
- Embossed 100 pcs reel type is recommended for flexible demand.



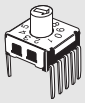
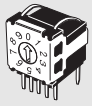
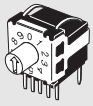
■List of Models

●Tube Packaging

Through-hole mounting (3 × 3 Terminal)

No. of switching positions	Quantity per tube	Output code	Type: Top-actuated, Flat	Top-actuated, Extended-actuator	Side-actuated, Flat	Side-actuated, Extended-actuator
						
10	Top :63 Side:60	BCD Decimal	**A6K-102RF**	**A6K-102RS**	**A6KV-102RF**	**A6KV-102RS**
16		BCD Hexadecimal	**A6K-162RF**	**A6K-162RS**	**A6KV-162RF**	**A6KV-162RS**

Through-hole mounting (5 × 2 Terminal)

No. of switching positions	Quantity per tube	Output code	Type: Top-actuated, Flat	Top-actuated, Extended-actuator	Side-actuated, Flat	Side-actuated, Extended-actuator
						
10	Top :63 Side:60	BCD Decimal	**A6K-104RF**	**A6K-104RS**	**A6KV-104RF**	**A6KV-104RS**
16		BCD Hexadecimal	**A6K-164RF**	**A6K-164RS**	**A6KV-164RF**	**A6KV-164RS**

Surface mounting (3 × 3 Terminal)

No. of switching positions	Quantity per tube	Output code	Type: Top-actuated, Flat	Top-actuated, Extended-actuator
				
10	63	BCD Decimal	**A6KS-102RF**	**A6KS-102RS**
16		BCD Hexadecimal	**A6KS-162RF**	**A6KS-162RS**

Note: There are not side-actuator types on surface monting with 3 × 3 terminals.

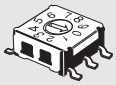
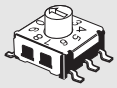
Surface mounting (5 × 2 Terminal)

No. of switching positions	Quantity per tube	Output code	Type: Top-actuated, Flat	Top-actuated, Extended-actuator	Side-actuated, Flat	Side-actuated, Extended-actuator
						
10	63	BCD Decimal	**A6KS-104RF**	**A6KS-104RS**	**A6KSV-104RF**	**A6KSV-104RS**
16		BCD Hexadecimal	**A6KS-164RF**	**A6KS-164RS**	**A6KSV-164RF**	**A6KSV-164RS**

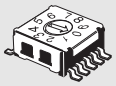
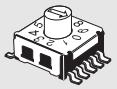
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●Embossed taping

Surface mounting (3 × 3 Terminal)

No. of switching positions	Output code	Type: Top-actuated, Flat				Type: Top-actuated, Extended-actuator			
									
		Quantity per reel	Standard reel	Quantity per reel	100 pcs reel	Quantity per reel	Standard reel	Quantity per reel	100 pcs reel
10	BCD Decimal	1450	**A6KS-102RF-P**	100	**A6KS-102RF-R100**	850	**A6KS-102RS-P**	100	**A6KS-102RS-R100**
16	BCD Hexadecimal		**A6KS-162RF-P**		**A6KS-162RF-R100**		**A6KS-162RS-P**		**A6KS-162RS-R100**

Surface mounting (5 × 2 Terminal)

No. of switching positions	Output code	Type: Top-actuated, Flat				Type: Top-actuated, Extended-actuator			
									
		Quantity per reel	Standard reel	Quantity per reel	100 pcs reel	Quantity per reel	Standard reel	Quantity per reel	100 pcs reel
10	BCD Decimal	1450	**A6KS-104RF-P**	100	**A6KS-104RF-R100**	850	**A6KS-104RS-P**	100	**A6KS-104RS-R100**
16	BCD Hexadecimal		**A6KS-164RF-P**		**A6KS-164RF-R100**		**A6KS-164RS-P**		**A6KS-164RS-R100**

No. of switching positions	Output code	Type: Side-actuated, Flat				Type: Side-actuated, Extended-actuator			
									
		Quantity per reel	Standard reel	Quantity per reel	100 pcs reel	Quantity per reel	Standard reel	Quantity per reel	100 pcs reel
10	BCD Decimal	750	**A6KSV-104RF-P**	100	**A6KSV-104RF-R100**	750	**A6KSV-104RS-P**	100	**A6KSV-104RS-R100**
16	BCD Hexadecimal		**A6KSV-164RF-P**		**A6KSV-164RF-R100**		**A6KSV-164RS-P**		**A6KSV-164RS-R100**

Note: Order in multiples of the package quantity.

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■Ratings/Characteristics

Rating (resistive load)		25 mA at 24 VDC 10 μA (minimum current) at 3.5 VDC
Ambient operating temperature		–30 to +80°C at 60% max. (with no icing or condensation)
Ambient operating humidity		35% to 95% (at +5 to +35°C)
Insulation resistance		100 MΩ min. (at 250 VDC with insulation tester)
Contact resistance (initial value)		200 mΩ max.
Dielectric strength	**Between terminals**	250 VAC for 1 min
Vibration resistance	**Malfunction**	10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	**Malfunction**	300 m/s^2 min.
Durability	**Electrical**	20,000 steps min.
Washing		Not possible
Degree of protection		IEC IP60 equivalent
Operating torque		1.96×10^{-2} N·m {2 gf·m} max.
Weight (See note.)	**Through-hole mounting terminals**	Top-actuated, flat: Approx. 0.4 g, Side-actuated, flat: Approx. 0.7 g
	Surface mounting terminals	Top-actuated, flat: Approx. 0.4 g, Side-actuated, flat: Approx. 0.4 g

Note: Add 0.03 g for the extended-actuator type of each model.

■Output Codes

10-position Models

Code	BCD Decimal code			
Position	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●

16-position Models

Code	BCD Hexadecimal code			
Position	1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●	●		●
C			●	●
D	●		●	●
E		●	●	●
F	●	●	●	●

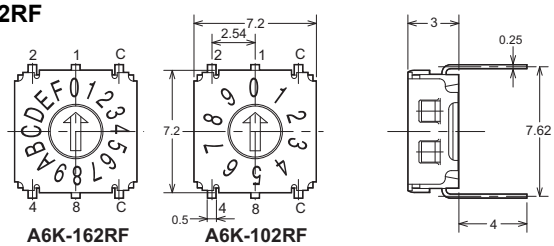
Note: "●" indicates that the internal switch is ON.

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■Dimensions (Unit: mm)

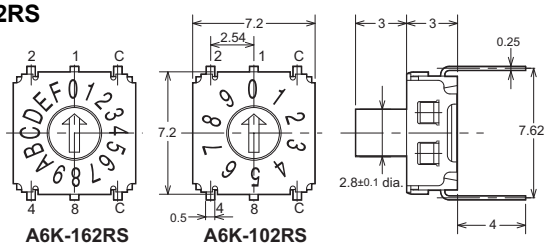
Through-hole mounting terminals

●Top-actuated Flat Models with 3 × 3 Terminal Arrangement
A6K-102RF
A6K-162RF



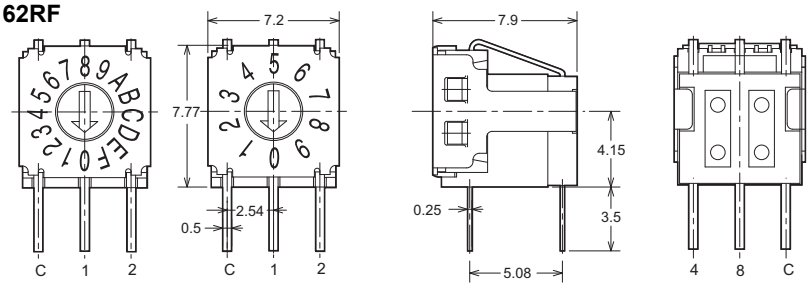
A6K-162RF A6K-102RF

●Top-actuated Extended-actuator Models with 3 × 3 Terminal Arrangement
A6K-102RS
A6K-162RS



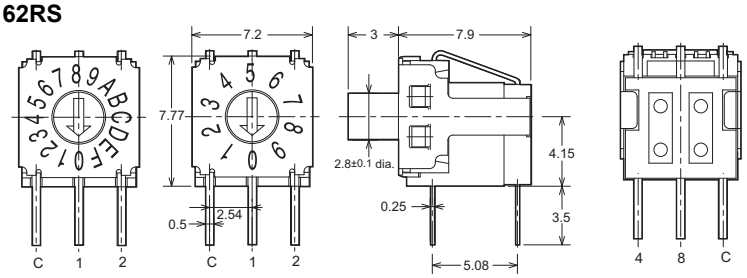
A6K-162RS A6K-102RS

●Side-actuated Flat Models with 3 × 3 Terminal Arrangement
A6KV-102RF
A6KV-162RF



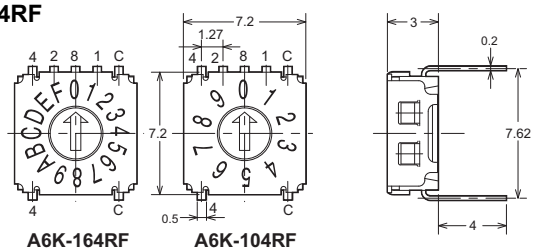
A6KV-162RF A6KV-102RF

●Side-actuated Extended-actuator Models with 3 × 3 Terminal Arrangement
A6KV-102RS
A6KV-162RS



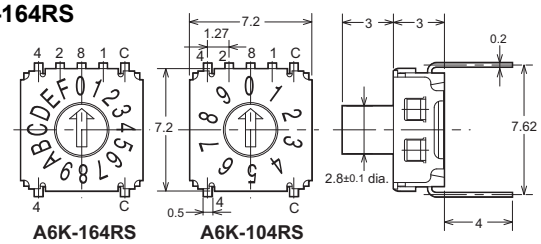
A6KV-162RS A6KV-102RS

●Top-actuated Flat Models with 5 × 2 Terminal Arrangement
A6K-104RF
A6K-164RF



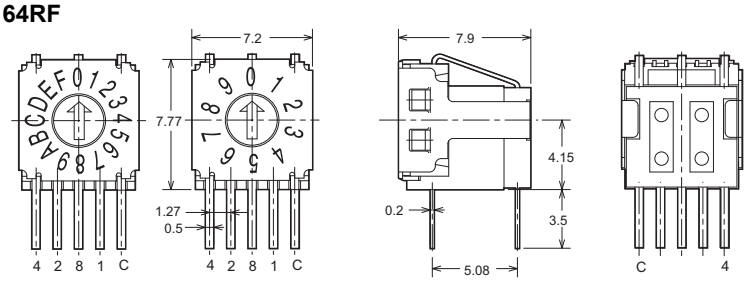
A6K-164RF A6K-104RF

●Top-actuated Extended-actuator Models with 5 × 2 Terminal Arrangement
A6K-104RS
A6K-164RS



A6K-164RS A6K-104RS

●Side-actuated Flat Models with 5 × 2 Terminal Arrangement
A6KV-104RF
A6KV-164RF

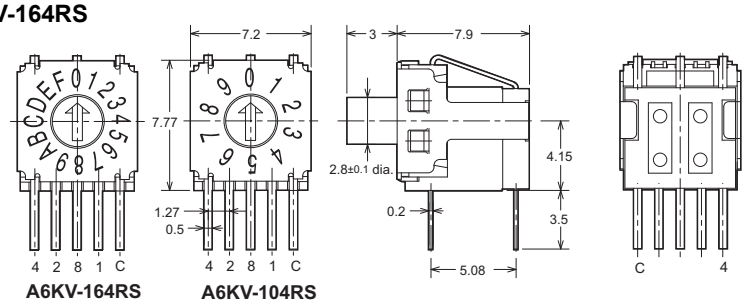


A6KV-164RF A6KV-104RF

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

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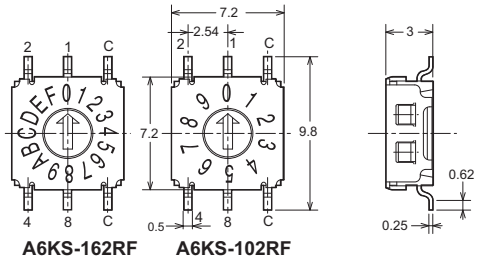
●Side-actuated Extended-actuator Models with 5 × 2 Terminal Arrangement
A6KV-104RS
A6KV-164RS



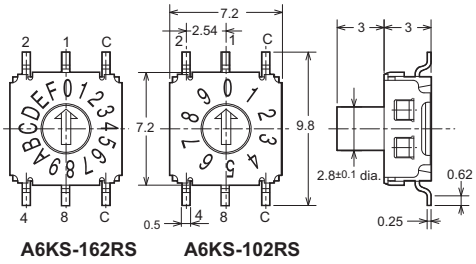
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Surface mounting terminals

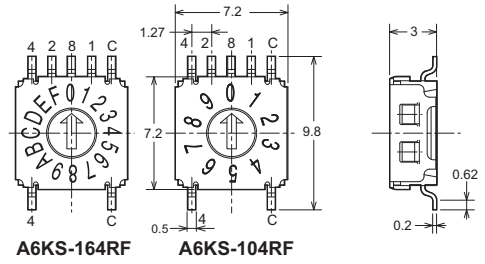
●Top-actuated Flat Models with 3 × 3 Terminal Arrangement
A6KS-102RF
A6KS-102RF-R100
A6KS-162RF
A6KS-162RF-R100



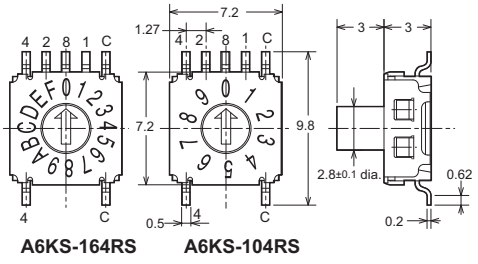
●Top-actuated Extended-actuator Models with 3 × 3 Terminal Arrangement
A6KS-102RS
A6KS-102RS-R100
A6KS-162RS
A6KS-162RS-R100



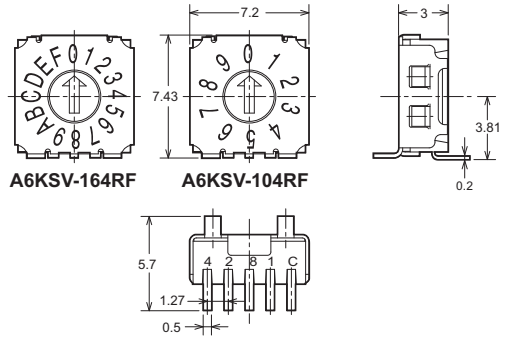
●Top-actuated Flat Models With 5 × 2 Terminal Arrangement
A6KS-104RF
A6KS-104RF-R100
A6KS-164RF
A6KS-164RF-R100



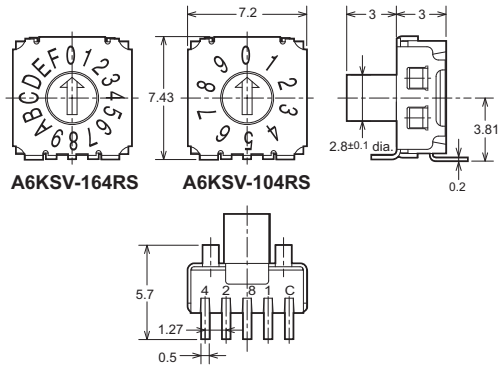
●Top-actuated Extended-actuator Models with 5 × 2 Terminal Arrangement
A6KS-104RS
A6KS-104RS-R100
A6KS-164RS
A6KS-164RS-R100



●Side-actuated Flat Models with 5 × 2 Terminal Arrangement
A6KSV-104RF
A6KSV-104RF-R100
A6KSV-164RF
A6KSV-164RF-R100



●Side-actuated Extended-actuator Models with 5 × 2 Terminal Arrangement
A6KSV-104RS
A6KSV-104RS-R100
A6KSV-164RS
A6KSV-164RS-R100



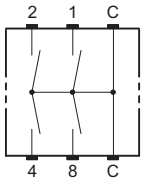
Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

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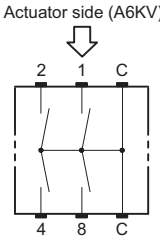
■Internal Connections

Contact Form (Top View)

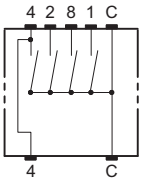
Top-actuated Models with 3 × 3 Terminal Arrangement Through-hole mounting terminals Surface mounting terminals



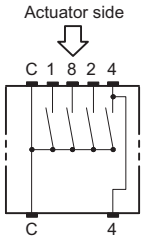
Side-actuated Models with 3 × 3 Terminal Arrangement Through-hole mounting terminals Surface mounting terminals



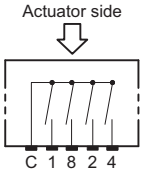
Top-actuated Models with 5 × 2 Terminal Arrangement Through-hole mounting terminals Surface mounting terminals



Side-actuated Models with 5 × 2 Terminal Arrangement Through-hole mounting terminals



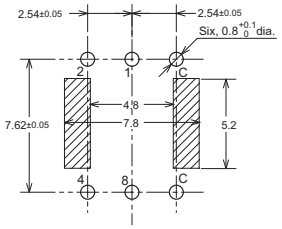
Side-actuated Models with 5 × 2 Terminal Arrangement Surface mounting terminals



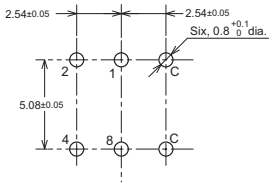
■PCB Dimensions (Reference) (Unit: mm)

●Top View

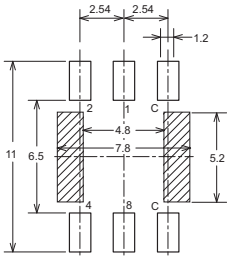
3 × 3 Terminal Arrangement Through-hole mounting terminals (Top-actuated Models)



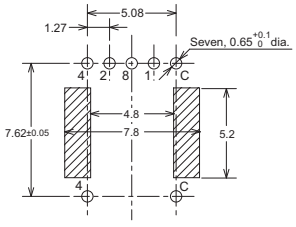
3 × 3 Terminal Arrangement Through-hole mounting terminals (Side-actuated Models)



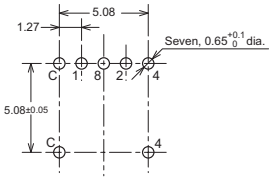
3 × 3 Terminal Arrangement Surface mounting terminals (Top-actuated Models)



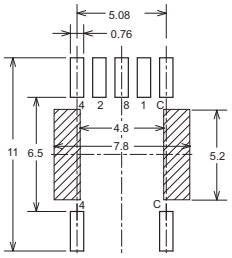
5 × 2 Terminal Arrangement Through-hole mounting terminals (Top-actuated Models)



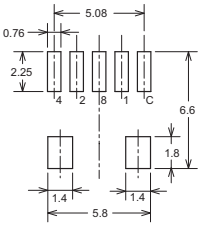
5 × 2 Terminal Arrangement Through-hole mounting terminals (Side-actuated Models)



5 × 2 Terminal Arrangement Surface mounting terminals (Top-actuated Models)



5 × 2 Terminal Arrangement Surface mounting terminals (Side-actuated Models)



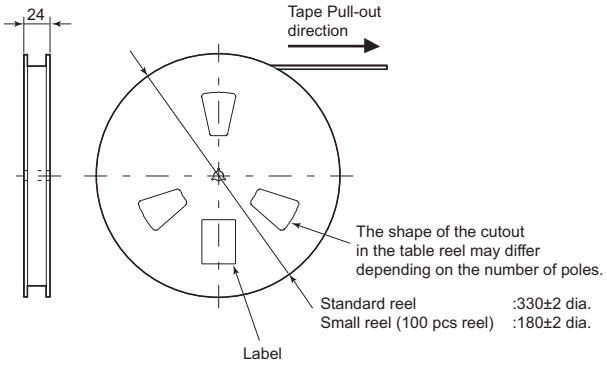
:Through hole and Pattern prohibited area

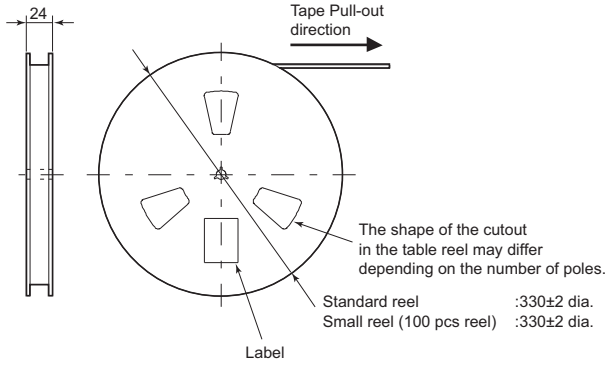
Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

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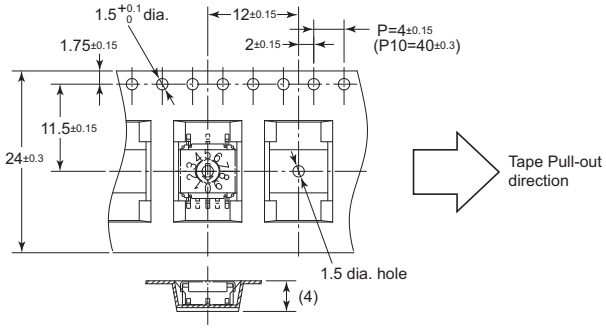
■Embossed Taping Packing Specifications

●Top-actuated

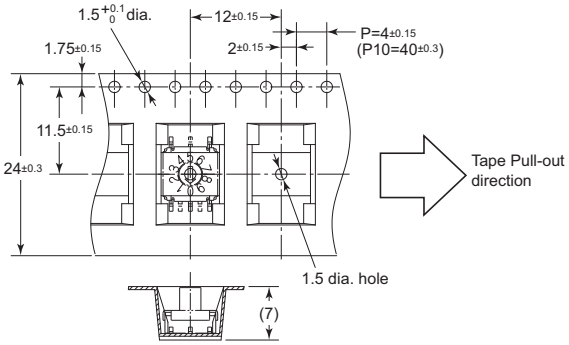




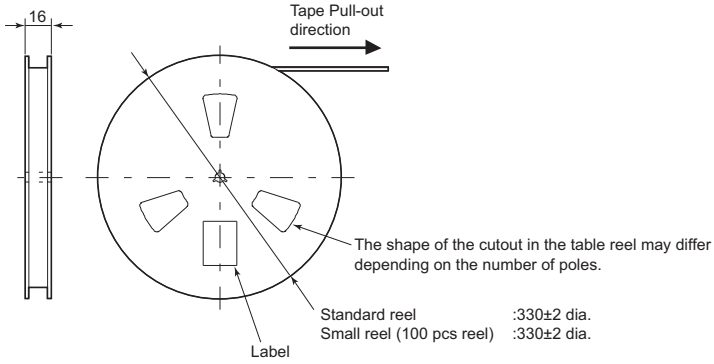
A6KS-1□□RF-P
A6KS-1□□RF-R100



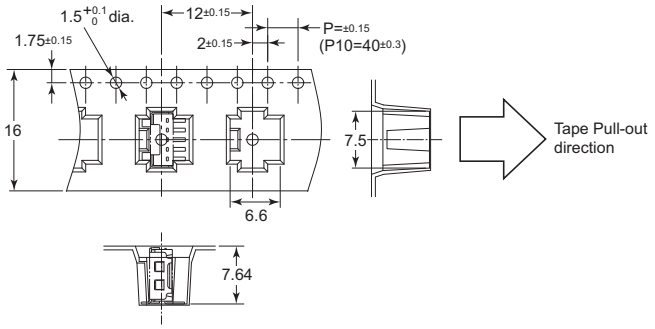
A6KS-1□□RS-P
A6KS-1□□RS-R100



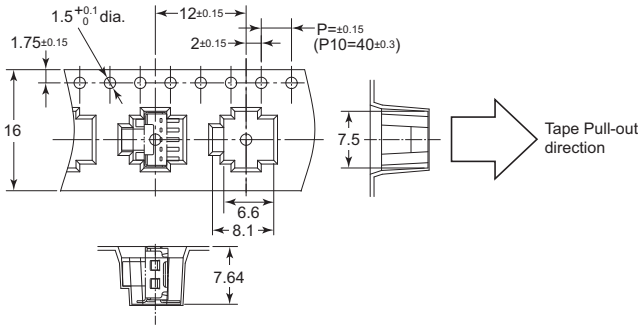
●Side-actuated



A6KSV-1□4RF-P
A6KSV-1□4RF-R100



A6KSV-1□4RS-P
A6KSV-1□4RS-R100



■Precautions

Be sure to read the Safety precautions common to all DIP Switches for correct use.

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