

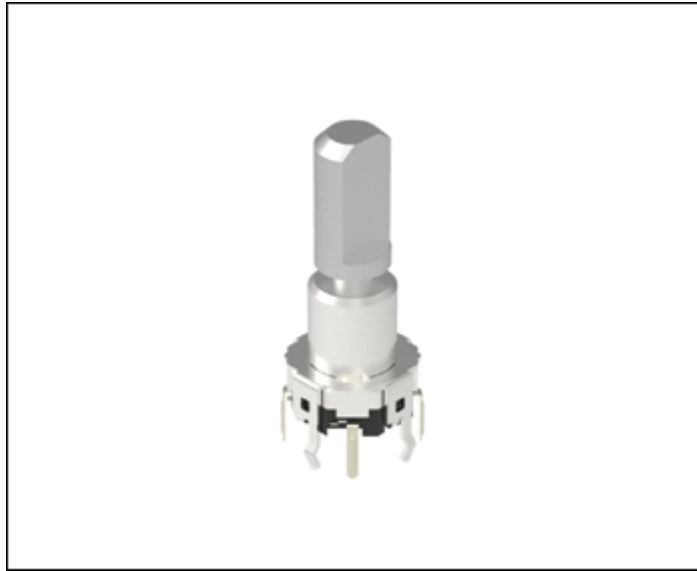


## 9mm Size Metal Shaft Type EC09E Series

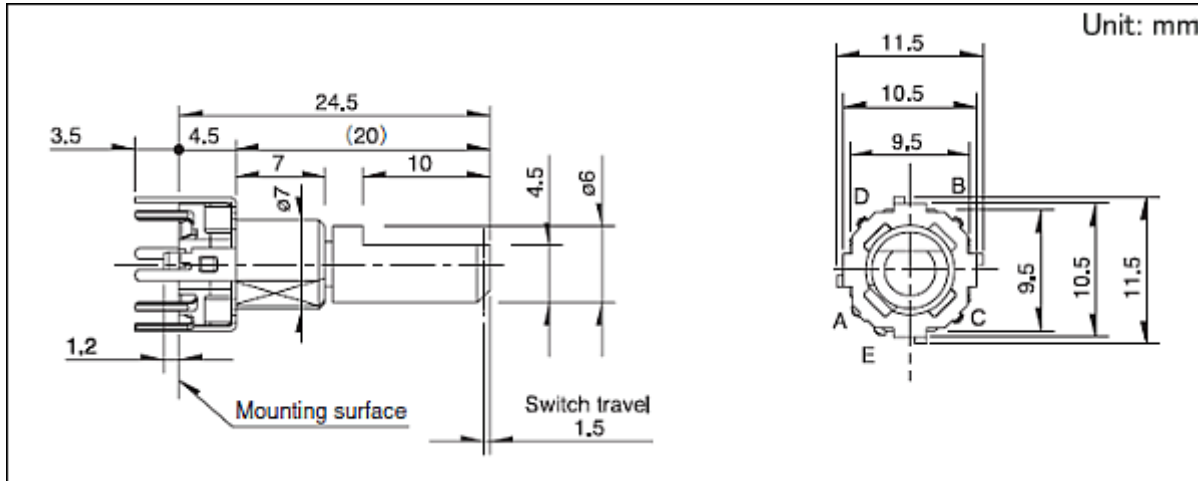
Part number	<b>EC09E1524404</b>	
Actuator configuration	Flat	
Actuator length	20mm	
Number of detent	30	
Number of pulse	15	
Operating direction	Vertical	
Push-on switch	With	
Travel of push-on switch	1.5mm	
Operating temperature range	-40°C to +85°C	
Electrical performance	Ratings	10mA 5V DC
	Output signal	Two phase A and B
	Max./min. operating current(Resistive load)	10mA/1mA
	Insulation resistance	100MΩ min. 250V DC
	Voltage proof	300V AC for 1 minute or 360V AC for 1s

Mechanical performance	Detent torque	8±5mN·m
	Push-pull strength	100N
Durability	Operating life	15,000 cycles
Push-on switch specifications	Contact arrangement	Single pole single throw (Push-on)
	Travel	1.5±0.5mm
	Operating force	4±2N
	Rating	10mA 5V DC (1mA 5V DC min. ratings)
	Contact resistance (Initial performance/After lifetime)	100mΩ max./200mΩ max.
	Operating life	10,000 times
Minimum order unit (pcs.)	Japan	700
	Export	1,400

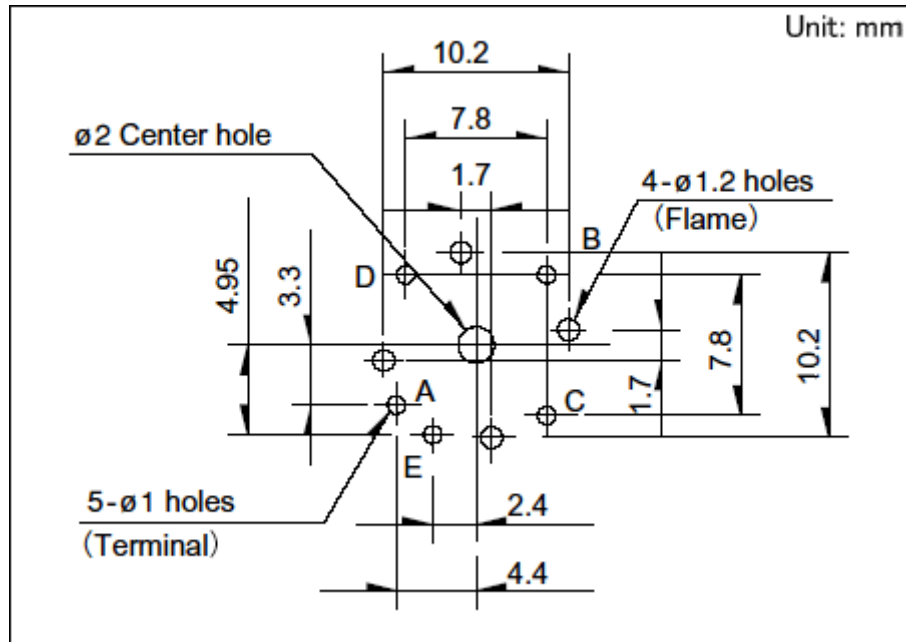
## Photo



### Dimensions

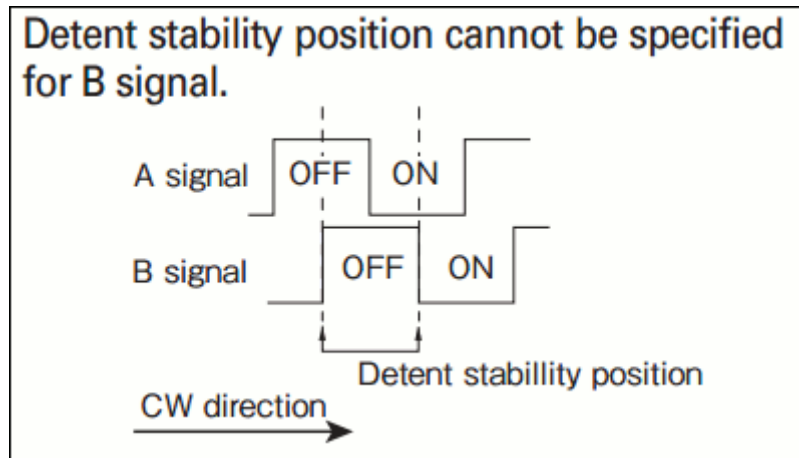


### Mounting Hole Dimensions

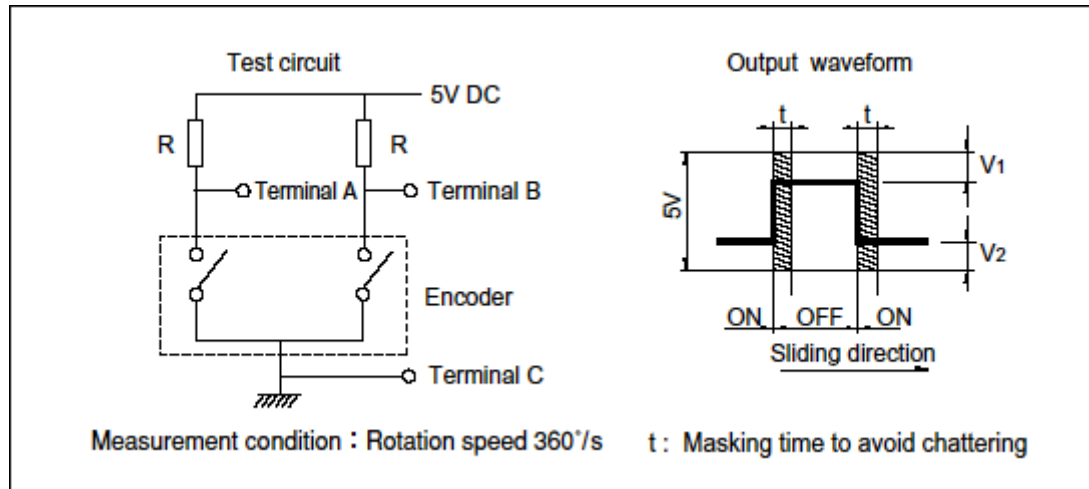


Viewed from mounting face.

### Output Wave



### Sliding Noise



V1=V2=2.5V max.

At R=5kΩ Chattering: 5ms max. Bounce: 2ms max.

## Packing Specifications

### Tray

Number of packages 1 case / Japan      700  
(pcs.)

1 case / export      1,400  
packing

Export package measurements (mm)      374×529×213

## Soldering Conditions

### Reference for Dip Soldering

Preheating      Soldering surfacetemperature      100°C max.

Heating time      2 min. max.

Dip soldering      Soldering temperature      260±5°C

Soldering time      5±1s

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No. of solders	2 time max.
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**Reference for Hand Soldering**

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Tip temperature	350°C max.
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Soldering time	3s max.
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No. of solders	1 time
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**Notes are common to this series/models.**

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).
3. Products other than those listed in the above chart are also available. Please contact us for details.
4. This products can be used in vehicles.  
Although these products are designed to perform over a wide operating temperature range, please ensure that you receive and read the formal delivery specifications before use.