12 mm Square Rotary Potentiometers with Insulated Shaft

Japan Malaysia

Type: **EVJ01/EVJ02** 





- Rectangular-shaped, automatic mounting type
- High tactile feedback (various types with bushing available)
- Available for automatic dip soldering (Flux-proof structure)
- Highly reliable, dust-proof type

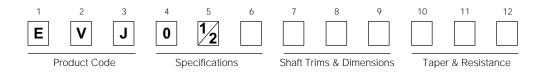




## ■ Recommended Applications

- Audio Equipment
- Video Equipment
- Electronic Musical Instruments

### ■ Explanation of Part Numbers



#### ■ Product Chart

Installation direction	Style	Height (H=mm)	Detent	Туре	
		10.0	Without detent	EVJ01A	
	Without bushing	10.0	Midpoint	EVJ01K	
		12.5	Without detent	EVJ01J	
Horizontal		12.5	Midpoint	EVJ01F	
HOHZOHIAI	With bushing	10.0	Without detent	EVJ01B	
		10.0	Midpoint	EVJ01D	
		10.5	Without detent	EVJ01H	
		12.5	Midpoint	EVJ01L	
Vertical	Without bushing		Without detent	EVJ02A	
	Without bushing	_	Midpoint	EVJ02H	
	M/ith bushing		Without detent	EVJ02B	
	With bushing	_	Midpoint	EVJ02K	

## **Panasonic**

## ■ Specifications

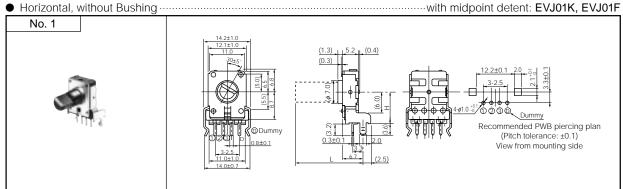
Classification			Item				
Applications		12 mr	m Square Insulated Sh	naft			
	Rotation Angle	300 °					
Mechanical Specifications	Rotation Torque	2 mN·m to 20 m	N·m				
	Shaft Stopper Strength	0.5 N·m min.					
	Shaft Pull/Push Strength	80 N min.					
	Shaft Inclination (Measured at the top of the shaft)	0.35 mm max.					
	Bushing-Nut Tightening Torque	1 N·m max.					
	Nominal Total Resistance	$5$ k $\Omega$ to 500 k $\Omega$ (Tolerance ±20 %)					
	Taper	A, B, C, D, G					
Electrical Specifications	Power Rating	0.05 W (0 °C to 50 °C) For potentiometers operating in ambient temperatures above 50 °C, Rating should be derated in accordance with the figure on the right.			20 40 mbient Tempera	60 70 ture(°C)	
	Residual Resistance	Taper &Terminal		A, B, D, G B, C, 1 to 2 2 to		C 1 to 2	
		Nominal	$5 \text{ k}\Omega < R < 50 \text{ k}\Omega$	25 <b>Ω</b> max.	25 Ω	max.	
		Total	50 kΩ < R < 250 kΩ	25 Ω max.		max.	
		Resistance	$250 \text{ k}\Omega < R < 500 \text{ k}\Omega$	100 <b>Ω</b> max.	100 ()	! max.	
	Insulation Resistance	100 MΩ min. at 250 Vdc					
	Dielectric Withstand Voltage	300 Vac for 1 minute					
	Noise Level	47 mV max.  Apply 20 V (When Voltage Rating < 20 V, use the rated voltage.)  Rotate shaft at 30 r/min.					
Endurance	Operating Life *1	15000 cycles min.					
Minimum Quantity/Packing Unit *2		80 pcs. (Tray Pack)		L≦20.0 mm			
		60 pcs. (Tray Pack)		L>20.0 mm			
Minimum Quantity/Pac	king Unit <b>*</b> 2	60	pcs. (Tray Pack)	l l	_>20.0 mm		
Minimum Quantity/Pac Packing Unit <b>*</b> 2	king Unit #2		pcs. (Tray Pack)		_>20.0 mm L≦20.0 mm		

<sup>\*1 :</sup> No direct current should be applied.

\*2: With bushing : L=L+7.5 mm

#### ■ Dimensions in mm (not to scale)

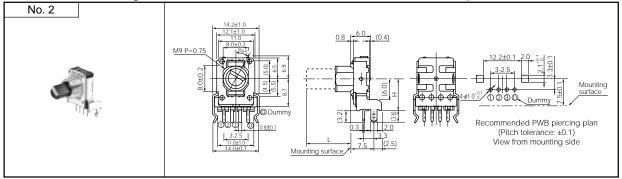
without midpoint detent: EVJ01A, EVJ01J



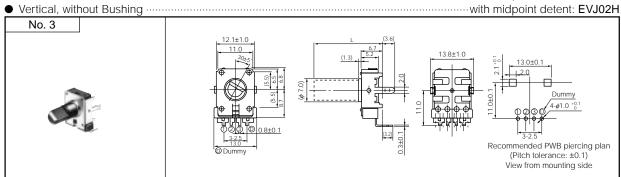
Note: Midpoint detent and midpoint tap available

without midpoint detent: EVJ01B, EVJ01H

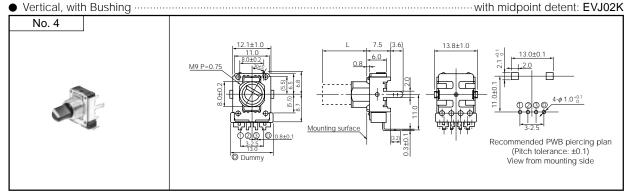
● Horizontal, with Bushing .......with midpoint detent: EVJ01D, EVJ01L



without midpoint detent: EVJ02A



without midpoint detent: EVJ02B



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

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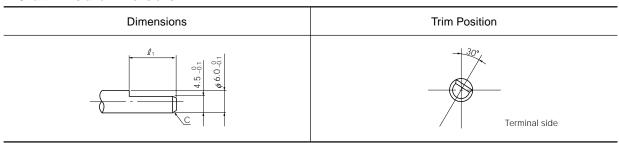
## ■ Circuit Diagram and PWB Piercing Plan

	Volume control without tap	With tap	Tone control	
Relation of mounting holes and terminals		1 2 3 (T)		

#### Notes:

- Relation of mounting holes and terminals. Refer to each piercing plan for dimensions.
   View from mounted part side.
   D is for dummy terminal.

#### ■ Shaft Trims and Dimensions in mm



Note: The drawing at full CCW position

Style			Dimensions in mm			
			Shaft			Bushing
		L	<b>Q</b> 1	Corner cut	<b>Q</b> 2	
without Bushing	Horizontal		15.0	4.5	C0.5	_
			20.0	7.0	C1.0	_
			25.0	12.0	C1.0	_
			30.0	12.0	C1.0	_
		[	15.0	4.5	C0.5	_
	Vertical	<del>                                   </del>	20.0	7.0	C1.0	_
			25.0	12.0	C1.0	_
			30.0	12.0	C1.0	_
	Horizontal	22 7.5	12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0
with Bushing			17.5	12.0	C1.0	5.0
			20.0	12.0	C1.0	5.0, 7.0
			22.5	12.0	C1.0	5.0, 7.0
	Vertical	<u> </u>	12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0
			17.5	12.0	C1.0	5.0
		<u> </u>	20.0	12.0	C1.0	5.0, 7.0
		<u>7.5   L</u>	22.5	12.0	C1.0	5.0, 7.0

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