9 mm Square Rotary Potentiometers with Insulated Shaft (Single Type)

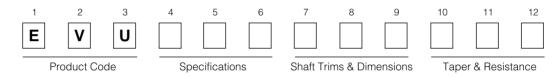
## Type: **EVUE/EVUF**

- Features
- Multi-gang block can be provided upon request
- DC voltage available
- Rigid rectangular shape suited for automatic insertion

#### ■ Recommended Applications

- Audio Equipment
- Video Equipment
- Electronic Musical Instruments
- Audio Mixers

#### ■ Explanation of Part Numbers



Japan

Malaysia

#### ■ Product Chart

| Construction                | Construction                          |         |         |          | Detent  |            |
|-----------------------------|---------------------------------------|---------|---------|----------|---------|------------|
| & Function                  | Horizontal (height from PWB to shaft) |         |         | Vertical | Without | Midpoint   |
| Туре                        | 6.5 mm                                | 10.0 mm | 12.5 mm | Vertical | detent  | Milapoliti |
| Single type without bushing | 0                                     | 0       | 0       | 0        | 0       | 0          |
| Single type with bushing    | 0                                     | 0       | _       | 0        | 0       | 0          |
| Single type with sleeve     | 0                                     | 0       | _       | 0        | 0       | 0          |

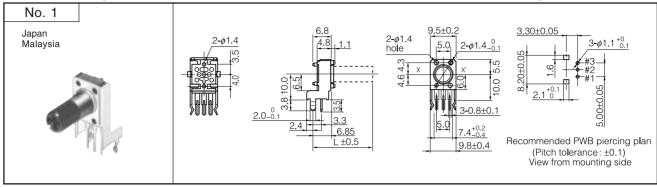
#### ■ Minimum Quantity/Packing Unit

| Minimum Quantity/Packing Unit | EVUE/EVUF | 200 pcs.(Vinyl Bag) |
|-------------------------------|-----------|---------------------|
| Quantity/Carton               | EVUE/EVUF | 2000 pcs.           |

- Dimensions in mm (not to scale)
- Single Type without Bushing

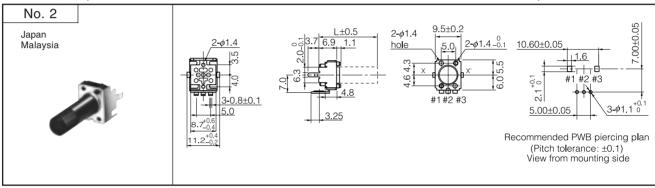
without midpoint detent: EVUE2A

Horizontal, Snap-in ...... with midpoint detent: EVUE3A



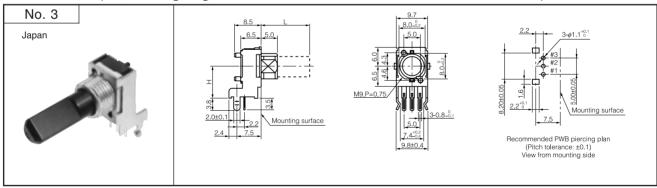
without midpoint detent: EVUF2A

Vertical, Snap-in ...... with midpoint detent: EVUF3A



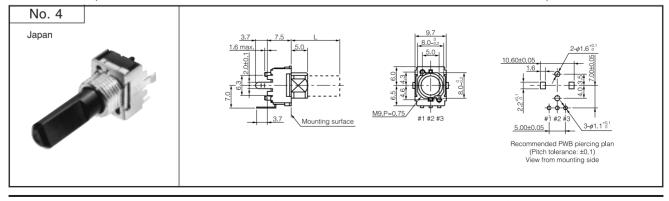
 Single Type with Bushing Horizontal, Snap-in, Mounting Height H=10.0 mm ...... with midpoint detent: EVUE3J

without midpoint detent: EVUE2J

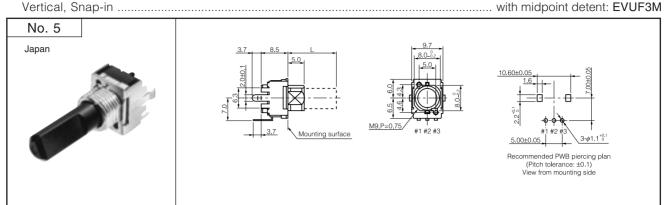


without midpoint detent: EVUF2J

Vertical, Snap-in ...... with midpoint detent: EVUF3J

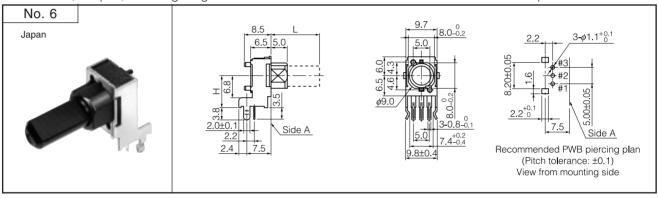


without midpoint detent: EVUF2M



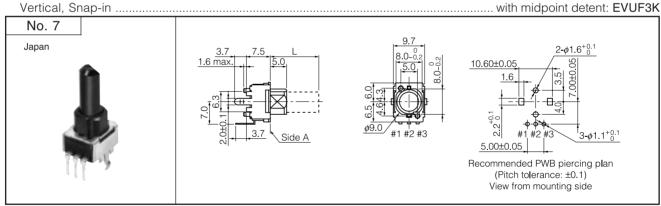
 Single Type with Sleeve Horizontal, Snap-in, Mounting Height H=10.0 mm ...... with midpoint detent: EVUE3K

without midpoint detent: EVUE2K

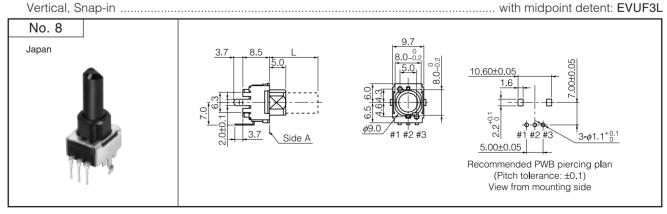


Single Type with Sleeve

without midpoint detent: EVUF2K

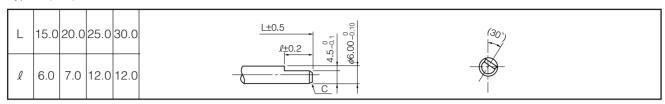


without midpoint detent: EVUF2L



• Shaft Trims and Dimensions in mm for Type without Bushing (Drawings are at full CCW position.)

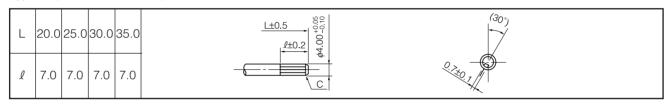
#### Type F (Flat)



#### Type E (40 teeth serrations)

| L | 15.0 | (17.0) | 20.0 | 25.0 | 30.0 | 35.0 | L±0.5<br>\$\lambda \pm \frac{\gamma_{Q}^{Q}}{Q} \ |
|---|------|--------|------|------|------|------|---|
| l | 6.0  | 7.0    | 7.0  | 7.0  | 7.0  | 7.0  | C C   |

## Type M (24 teeth serrations)



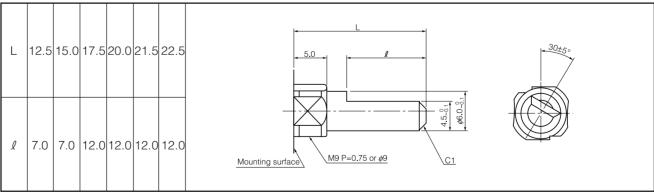
#### Type S (with screw slot)

| L | 9.5 | L=9.5±0.5 30°50 |
|---|-----|-----------------|
| l | _   | X X X           |

#### Type H (with screw slot)

| L | 15.0 20 | 0.0 25.0 | L±0.5<br>#±0.2<br>  ±0.2<br>  ±0.9<br>  ±0.9 |
|---|---------|----------|--|
| l | 6.0 7.  | 7.0      | C C C C C C C C C C C C C C C C C C C  |

# • Shaft Trims and Dimensions in mm for Types with Bushing or Sleeve (Drawings are at full CCW position.) Type F (Flat)



Note: When you have special requirements other than the above, consult our salesmen.

## **Panasonic**

### ■ Major Specifications

## 1. Mechanical Specifications

| Type                     | Type without bushing                                     | Type with bushing  | Type with sleeve                                   |
|--------------------------|--|--|--|
| Rotation Angle           | 300 °±5 °  | 300 °±5 °  | 300 °±5 °  |
| Rotation Torque          | 1 mN·m to 8 mN·m (after rotation started)                | 1 mN·m to 20 mN·m (after rotation started)               | 1 mN·m to 20 mN·m (after rotation started)         |
| Shaft Stopper Strength   | 300 mN·m   | 300 mN·m   | 300 mN·m   |
| Shaft wobble             | Shaft bend and shaft wobble shall be                     | Shaft bend and shaft wobble shall be                     | Shaft bend and shaft wobble shall be               |
|                          | $0.8 \times \frac{L}{20}$ (mm) max. (for one side)       | $0.5 \times \frac{L}{30}$ (mm) max. (for one side)       | $0.7 \times \frac{L}{30}$ (mm) max. (for one side) |
|                          | When moment of 25 mN·m is applied.                       | When moment of 50 mN·m is applied.                       | When moment of 50 mN·m is applied.                 |
|                          | ●L=Distance between mounting surface and measuring point | ●L=Distance between mounting surface and measuring point |  |
| Shaft Pull/Push Strength | Push strength Pull strength                              | Push strength Pull strength                              | Push strength Pull strength                        |
|                          | 100 N min. 100 N min.                                    | 100 N min. 100 N min.                                    | 100 N min. 100 N min.                              |
| Nut Tightening Torque    |  | 1 N·m max.   | <del></del>  |

## 2. Electrical Specifications

| Nominal Total Resistance                                       | 1 kΩ to 1 M  | 1 k $\Omega$ to 1 M $\Omega$ , 300 $\Omega$ to 2 M $\Omega$ for taper B (Tolerance ±20 %)   |  |            |              |  |
|--|--|---|--|------------|--------------|--|
| Power Rating   | For potentiometer temperature above  | 0.05 W (0 °C to 50 °C)  For potentiometers operated in ambient temperature above 50 °C, Rating should be derated in accordance with the figure  |  |            |              |  |
| Voltage Rating   | E=Voltage Rating P=Power Rating (  | $E=\sqrt{P\cdot R}$ but $E \le 50$ (20 V max. for dc)<br>E=Voltage Rating (V)<br>P=Power Rating (W)<br>R=Nominal Total Resistance (Ω)   |  |            |              |  |
| Taper  | A, B, C, D, G  |   |  |            |              |  |
| Residual Resistance  | $Standard$ $Semi-standard$ $R \le 2 \text{ k}\Omega$ $2 \text{ k}\Omega < R \le 50 \text{ k}\Omega$ $50 \text{ k}\Omega < R \le 250 \text{ k}\Omega$ | $\begin{array}{c ccccc} 50 \text{ k}\Omega < \text{R} \leq 1 \text{M}\Omega & 100 \ \Omega \\ \hline 1 \text{ M}\Omega < \text{R} \leq 2 \text{ M}\Omega & 200 \ \Omega \\ \hline \\ A, B, D, G & B, C, G & A, D \\ \hline \\ T1 \& T2 & T2 \& T3 & T2 \& T3 \\ \hline \\ 2 \Omega \text{ max.} & 20 \ \Omega \\ \hline \\ 2 \Omega \text{ max.} & 25 \ \Omega \\ \hline \end{array}$ |  |            |              |  |
|  | R > 250 kΩ   | 100 Ω max.  |  | 100 Ω max. |              |  |
| Insulation Resistance Dielectric Withstand Voltage Noise Level | Apply 20 Vdc   | 50 MΩ min. at 250 Vdc 250 Vac for 1 minute  100 mV max.  Apply 20 Vdc (When Voltage Rating < 20 V, use the rated voltage.  Rotate shaft at 30 r/min.  |  |            | ed voltage.) |  |