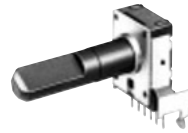


12 mm Square Two-in-One Potentiometers

Type: **EVJC/EVJY**



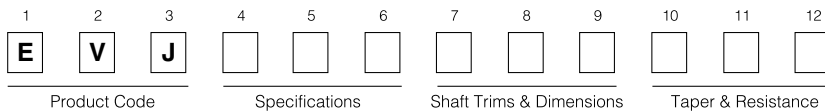
■ Features

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

■ Recommended Applications

- Audio Equipment
- Video Equipment
- Electronic Musical Instruments

■ Explanation of Part Numbers



■ Circuit Diagram and PWB Piercing Plan

	Volume control without tap	With tap	Tone control
Relation of mounting holes and terminals		—	

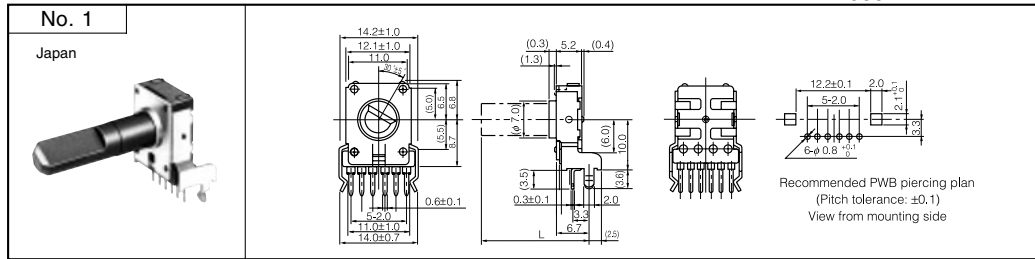
Notes:

1. I=Resistor 1, II=Resistor 2
2. Relation of mounting holes and terminals. Refer to each piercing plan for dimensions.
3. View from mounted part side.

■ Dimensions in mm (not to scale)

for Volume : EVJC00 (without detent)
 for Tone : EVJC30 (with detent)
 EVJC31

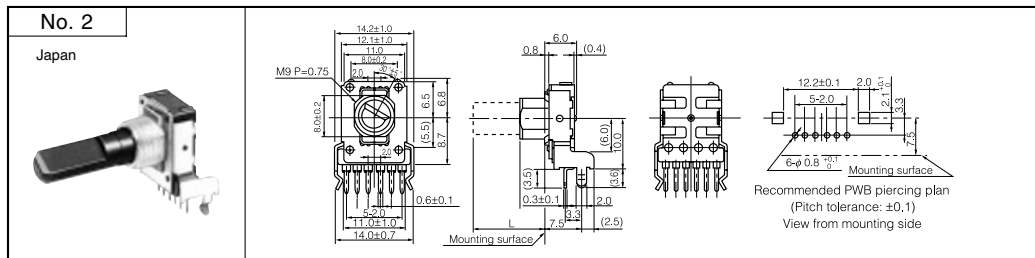
● Horizontal, without Bushing



for Volume: EVJC20
 for Tone : EVJC50 (without detent)

● Horizontal, with Bushing

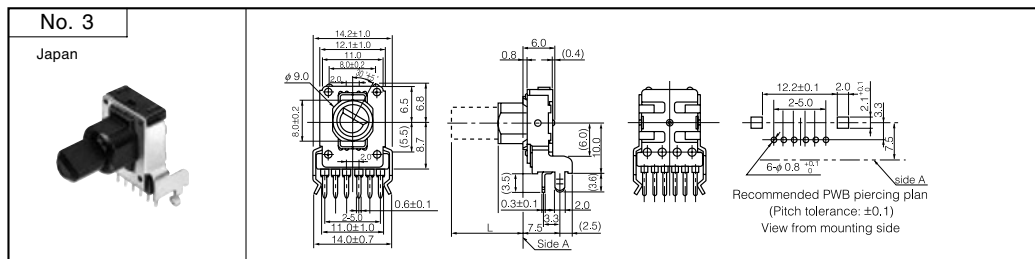
EVJC51 (with detent)



for Volume: EVJC25
 for Tone : EVJC55 (without detent)

● Horizontal, with Sleeve

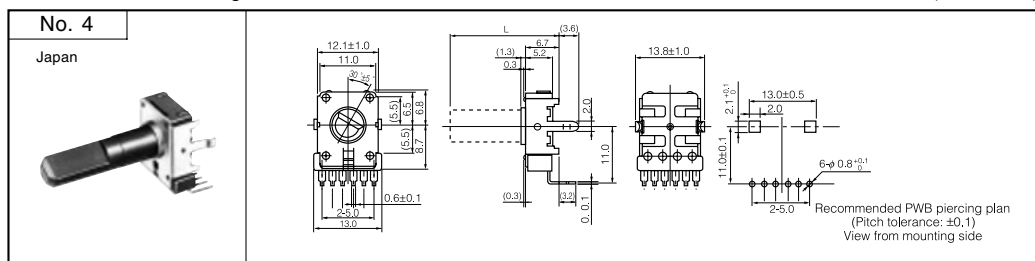
EVJC56 (with detent)



for Volume: EVJY00
 for Tone : EVJY80 (without detent)

● Vertical, without Bushing

EVJY81 (with detent)



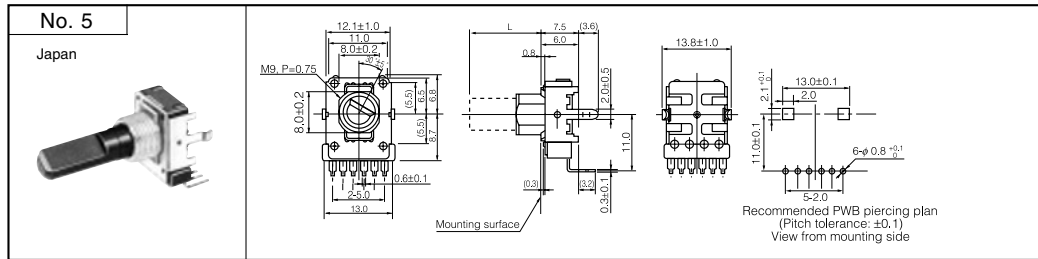
■ Dimensions in mm (not to scale)

● Vertical, with Bushing

for Volume: EVJY10

for Tone : EVJY90 (without detent)

EVJY91 (with detent)

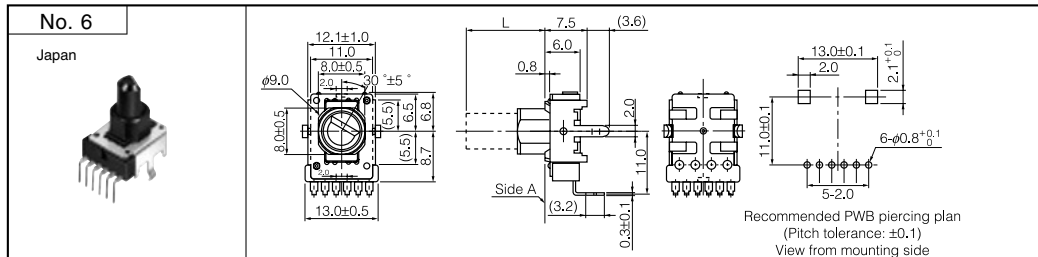


● Vertical, with Sleeve

for Volume: EVJY15

for Tone : EVJY95 (without detent)

EVJY96 (with detent)



■ Shaft Trims and Dimensions in mm

Dimensions	Trim Position
	<p>Terminal side</p>

Note: The drawing is at full CCW position

Style			Dimensions in mm			
			Shaft			Bushing
			L	l_1	Comercut	l_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	—
	Vertical		15.0	4.5	C0.5	—
			20.0	7.0	C1.0	—
25.0			12.0	C1.0	—	
with Bushing	Horizontal		12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0
			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
			25.0	12.0	C1.0	5.0, 7.0
	Vertical		12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0
			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
			25.0	12.0	C1.0	5.0, 7.0

Major Specifications

1. Mechanical Specifications

Applications	12 mm square Two-in-One
Rotation Angle	300 ° ±5 °
Rotation Torque	2 mN·m to 20 mN·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.

2. Electrical Specifications

Nominal Total Resistance	5 kΩ to 500 kΩ (Tolerance ±20 %)																																																					
Taper	A, B, C, D, G, BH																																																					
Power Rating	0.05 W (0 °C to 50 °C)	<p>Power Derating Curve</p> <p>Rated Load(%)</p> <p>Ambient Temperature(°C)</p>																																																				
Voltage Rating	$E = \sqrt{P \cdot R}$ but $E \leq 50$ Vac $E = \text{Voltage Rating (V)}$ $P = \text{Power Rating (W)}$ $R = \text{Nominal Total Resistance } (\Omega)$																																																					
Residual Resistance	<table border="1"> <thead> <tr> <th rowspan="2">Nominal Total Resistance</th> <th colspan="2">Type</th> <th colspan="4">For general purpose (tone)</th> <th colspan="4">For volume control</th> </tr> <tr> <th colspan="2">Taper & Terminal</th> <th>A, B, D, G</th> <th>B, C, G</th> <th>A, D</th> <th>C</th> <th>A, B, D</th> <th>A, B, D</th> <th>C</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>5 kΩ < R ≤ 50 kΩ</td> <td>1 to 2</td> <td>2 to 3</td> <td>2 to 3</td> <td>1 to 2</td> <td>1 to 2</td> <td>1 to 2</td> <td>2 to 3</td> <td>1 to 2</td> <td>2 to 3</td> </tr> <tr> <td>50 kΩ < R ≤ 250 kΩ</td> <td></td> <td></td> <td>25 Ω max.</td> <td>25 Ω max.</td> <td>50 Ω max.</td> <td>15 Ω max.</td> <td>50 Ω max.</td> <td>50 Ω max.</td> <td>20 Ω max.</td> </tr> <tr> <td>250 kΩ < R ≤ 500 kΩ</td> <td></td> <td></td> <td>100 Ω max.</td> <td>100 Ω max.</td> <td>100 Ω max.</td> <td>50 Ω max.</td> <td>100 Ω max.</td> <td>50 Ω max.</td> <td>50 Ω max.</td> </tr> </tbody> </table>			Nominal Total Resistance	Type		For general purpose (tone)				For volume control				Taper & Terminal		A, B, D, G	B, C, G	A, D	C	A, B, D	A, B, D	C	C	5 kΩ < R ≤ 50 kΩ	1 to 2	2 to 3	2 to 3	1 to 2	1 to 2	1 to 2	2 to 3	1 to 2	2 to 3	50 kΩ < R ≤ 250 kΩ			25 Ω max.	25 Ω max.	50 Ω max.	15 Ω max.	50 Ω max.	50 Ω max.	20 Ω max.	250 kΩ < R ≤ 500 kΩ			100 Ω max.	100 Ω max.	100 Ω max.	50 Ω max.	100 Ω max.	50 Ω max.	50 Ω max.
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Tracking	For volume control within 3 dB at -40 to 0 dB For Tone control within 3 dB at midpoint																																																					
Insulation Resistance	100 MΩ min. at 250 Vdc																																																					
Dielectric Withstanding Voltage	300 Vac for 1 minute																																																					
Noise Level	47 mV max. Apply 20 Vdc (When Voltage Rating < 20 V, use the rated voltage.) Rotate shaft at 30 r/min.																																																					

3. Endurance

Rotation Life	15000 cycles min.
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Note: No direct current should be applied.

4. Minimum Quantity/Packing Unit

Minimum Quantity/ Packing Unit	EVJC/EVJY	80 pcs. (Tray Pack)	L ≥ 20.0 mm
		60 pcs. (Tray Pack)	L < 20.0 mm
Quantity/ Carton	EVJC/EVJY	800 pcs.	L ≥ 20.0 mm
		600 pcs.	L < 20.0 mm