12 mm Square Two-in-One Potentiometers

Type: EVJC/EVJY



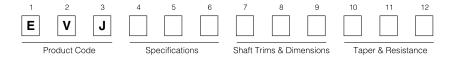
■ Features

- 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	$I_{2} \bigcirc \longrightarrow \bigvee_{I_{1}} I_{3} \bigcirc I_{2}$		$I_{2} \longrightarrow \underbrace{\qquad \qquad }_{I_{1}} \longrightarrow I_{2}$

Notes:

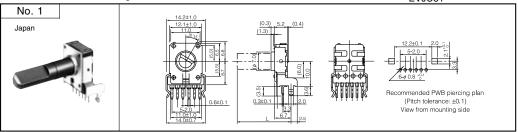
- 1. I=Resistor 1, II=Resistor 2
- 2. Relation of mounting holes and terminals. Refer to each piercing plan for dimensions.
- 3. View from mounted part side.

■ Dimensions in mm (not to scale)

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

Horizontal, without Bushing

EVJC31

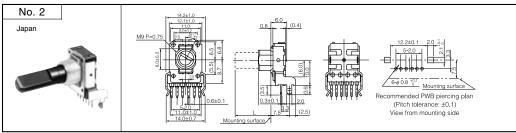


for Volume: EVJC20

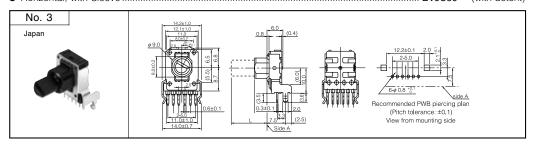
for Tone : EVJC50(without detent) EVJC51 (with detent)

Horizontal, with Bushing

EVJC51

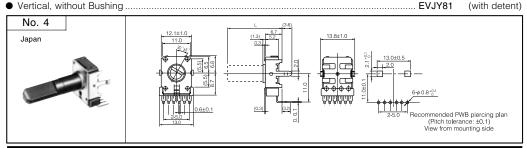


for Volume: EVJC25



for Volume: EVJY00

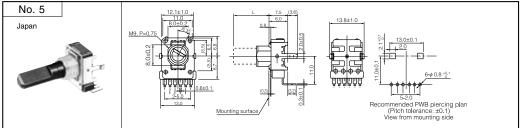
for Tone : EVJY80 (without detent)



■ Dimensions in mm (not to scale)

for Volume: EVJY10

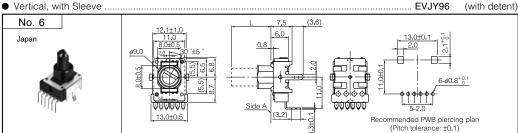
for Tone : EVJY90 (without detent)



for Volume: EVJY15

for Tone : EVJY95 (without detent)

View from mounting side



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■ Shaft Trims and Dimensions in mm

Dimensions	Trim Position
C C C C C C C C C C C C C C C C C C C	Terminal side

Note: The drawing at full CCW position

Style		Dimensions in mm				
		Shaft			Bushing	
		L	Q ₁	Cornercut	Q ₂	
		FT,	15.0	4.5	C0.5	_
			20.0	7.0	C1.0	_
	Horizontal		25.0	12.0	C1.0	_
without			30.0	12.0	C1.0	_
Bushing		6.7	15.0	4.5	C0.5	_
	Vertical		20.0	7.0	C1.0	_
	Vertical		25.0	12.0	C1.0	_
			30.0	12.0	C1.0	_
	Horizontal		12.5	7.0	C1.0	5.0
with Bushing			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
		<u>- 7.5- - </u>	22.5	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

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■ 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	0.35 mm max.	
(Measured at the top of the shaft)		
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) For potentiometers operated in ambient temperatures above 50 °C, Rating shall be derated in accordance with the figure at right. Power Derating Curve 8 80 9 40 9 33 20 Ambient Temperature(°C)			
Voltage Rating	E= $\sqrt{P \cdot R}$ but E ≤ 50 Vac E=Voltage Rating (V) P=Power Rating (W) R=Nominal Total Resistance (Ω)			
Residual Resistance				
Maximum Attenuation (for volume control, taper A, B, D)	$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			
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.			

4. Minimum Quantity/Packing Unit

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