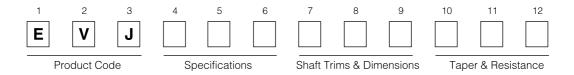
12 mm Square Two-in-One Potentiometers (Dual Type)

Type: **EVJC/EVJY** 



- Features
- Rectangular-shaped, automatic mounting type
- High tactile feedback
- Available for automatic dip soldering (Flux-proof structure)
- Highly reliable and dust-proof
- 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	$I_{3} \qquad I_{3} \qquad 0$ $I_{2} \qquad 0$ $I_{1} \qquad I_{1}$		$I_{2} \bigcirc \longrightarrow \underbrace{I_{3}}_{I_{1}} \bigcirc I_{2}$

#### Notes:

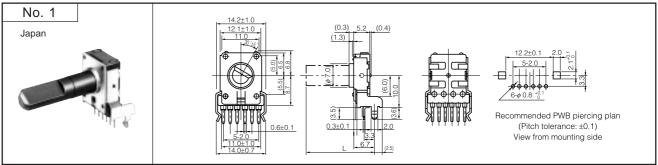
- 1. I=Resistor 1, II=Resistor 2
- 2. Relation of mounting holes and terminals. Refer to each piercing plan for dimensions.
- 3. View from mounted part side.

■ Dimensions in mm (not to scale)

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

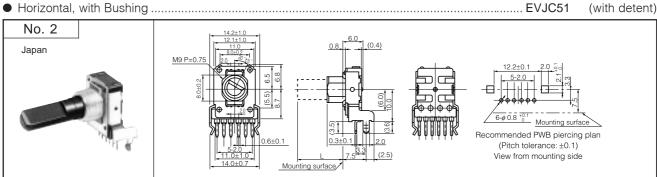
Horizontal, without Bushing .....

EVJC31



for Volume: EVJC20

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



for Volume: EVJC25

No. 3

Japan

Japan

14.2±1.0

10.8 6.0 (0.4)

12.2±0.1 2.0 5 6 0 0.8 6.1 (0.4)

12.2±0.1 2.0 5 6 0 0.8 6.1 (0.4)

13.0 5 6 0 0.8 6.1 (0.4)

14.0 5 6 0 0.8 6.1 (0.4)

15.0 5 6 0 0.8 6.1 (0.4)

16.0 1 0.3±0.1 2.0 5 6 0 0.8 6.1 (0.4)

17.0 5 6 0 0.8 6.1 (0.4)

18.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

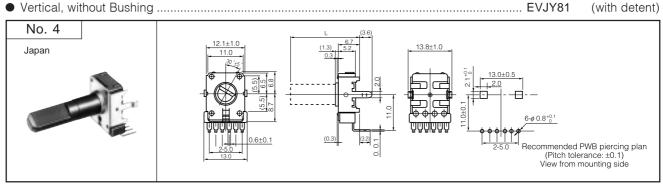
19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1 (0.4)

19.0 5 6 0 0.8 6.1

for Volume: EVJY00

for Tone : EVJY80 (without detent) ...... EVJY81 (with detent)



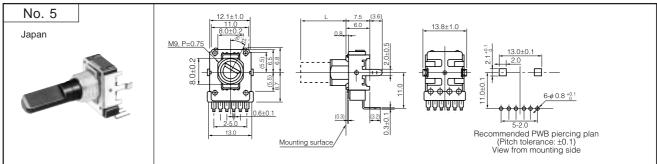
■ Dimensions in mm (not to scale)

for Volume: EVJY10

for Tone : EVJY90 (without detent)

 Vertical, with Bushing .....

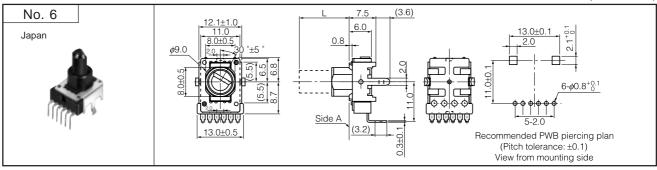
EVJY91 (with detent)



for Volume: EVJY15

for Tone : EVJY95 (without detent)

.....EVJY96 (with detent)



# ■ 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	$\boldsymbol{\ell}_1$	Corner cut	$\boldsymbol{\ell}_2$
		<u>F</u> "h,	15.0	4.5	C0.5	_
	l la via a vaka l		20.0	7.0	C1.0	_
	Horizontal	(	25.0	12.0	C1.0	_
without		<u>6.7</u> L	30.0	12.0	C1.0	_
Bushing		(6.7.) (6.7.) (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	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
with Bushing		<sub>=</sub> 7.3-  <sub>-</sub>	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
		17.5 L	20.0	12.0	C1.0	5.0, 7.0
		<del>  </del>	22.5	12.0	C1.0	5.0, 7.0

# **Panasonic**

# ■ 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)	0.55 Hill Hax.	
Bushing-Nut Tightening Torque	1 N·m max.	

# 2. Electrical Specifications

Rotate shaft at 30 r/min.  3. Endurance  Rotation Life 15000 cycles min.	Nominal Total Resistance	5 kΩ to 500 kΩ (Tolerance ±20 %)		
For potentionelers operated in ambient temperature above 50 °C, Power should be derated in accordance with the figure at right.   For yolume control within 3 dB at 4 do to 0 dB For Yolume control within 3 dB at midpoint	Taper	A, B, C, D, G, BH		
	Power Rating	For potentiometers operated in ambient temperature above 50 °C, Power should be derated in accordance with the figure at right.		
Nominal   Taper & For general purpose (tone)   For volume control	Voltage Rating	E=√P·R but E ≤ 50 Vac E=Voltage Rating (V) P=Power Rating (W)		
$(for \ volume \ control, \ taper \ A, \ B, \ D) \\ \hline \begin{array}{c} 5 \ k\Omega \le R < 10 \ k\Omega \\ \hline \\ 5 \ k\Omega \le R < 50 \ k\Omega \\ \hline \\ 100 \ k\Omega \le R < 100 \ k\Omega \\ \hline \\ 100 \ k\Omega \le R \\ \hline \end{array} \begin{array}{c} -65 \ dB \ max. \\ \hline \\ -72 \ dB \ max. \\ \hline \\ 100 \ k\Omega \le R \\ \hline \end{array} \begin{array}{c} -100 \ k\Omega \\ \hline \\ -92 \ dB \ max. \\ \hline \\ 100 \ k\Omega \le R \\ \hline \end{array} \begin{array}{c} -92 \ dB \ max. \\ \hline \\ -92 \ dB \ max. \\ \hline \end{array} \\ \hline \\ 100 \ k\Omega \le R \\ \hline \end{array} \begin{array}{c} -92 \ dB \ max. \\ \hline \\ -92 \ dB \ max. \\ \hline \\ -92 \ dB \ max. \\ \hline \\ 30 \ dB \ at \ -40 \ to \ 0 \ dB \\ \hline \\ For \ Tone \ control \ within \\ \hline \\ 3 \ dB \ at \ midpoint \\ \hline \\ Insulation \ Resistance \\ \hline \\ Dielectric \ Withstand \ Voltage \\ \hline \\ Noise \ Level \\ \hline \\ Noise \ Level \\ \hline \\ Rotation \ Life \\ \hline \end{array} \begin{array}{c} 5 \ k\Omega \le R < 10 \ k\Omega \\ \hline \\ -65 \ dB \ max. \\ \hline \\ -92 \ dB \ max. \\ \hline \\ 0.1 \ dB \ max. \\ \hline \\ $	Residual Resistance	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
3 dB at -40 to 0 dB For Tone control within 3 dB at midpoint  Insulation Resistance 100 MΩ min. at 250 Vdc  Dielectric Withstand Voltage 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.				
Dielectric Withstand Voltage  Noise Level  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.	Tracking	3 dB at -40 to 0 dB For Tone control within		
Noise Level  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.	Insulation Resistance	100 MΩ min. at 250 Vdc		
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.	Dielectric Withstand Voltage	300 Vac for 1 minute		
Rotation Life 15000 cycles min.	Noise Level	Apply 20 Vdc (When Voltage Rating < 20 V, use the rated voltage.)		
•	3. Endurance			
	Rotation Life	15000 cycles min.		
	Note: No direct current should be applied.			

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