Panasonic

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

Type: EVJC/EVJY

Japan Malaysia



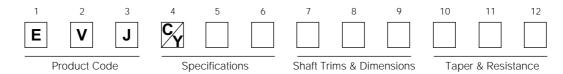
Features

- 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



Product Chart

Installation direction	Style	Height (H=mm)	Applications	Detent	Туре
		10.0	Volume control	Without detent	EVJC00
	Without bushing		Tana control	Without detent	EVJC30
			Tone control	Midpoint	EVJC31
		12.5	Volume control	Without detent	EVJC90
			Tone control	Without detent	EVJC40
				Midpoint	EVJC41
		10.0	Volume control	Without detent	EVJC20
	With bushing		Tone control	Without detent	EVJC50
Horizontal			Ione control	Midpoint	EVJC51
Πυπζυπιαι		12.5	Volume control	Without detent	EVJCB0
			Tone control	Without detent	EVJCH0
				Midpoint	EVJCH1
	With sleeve	10.0	Volume control	Without detent	EVJC25
			Tone control	Without detent	EVJC55
				Midpoint	EVJC56
		12.5	Volume control	Without detent	EVJCB5
			Tone control	Without detent	EVJCH5
				Midpoint	EVJCH6
	Without bushing	_	Volume control	Without detent	EVJY00
			Tone control	Without detent	EVJY80
				Midpoint	EVJY81
	With bushing	_	Volume control	Without detent	EVJY10
Vertical			Tone control	Without detent	EVJY90
				Midpoint	EVJY91
	With sleeve	_	Volume control	Without detent	EVJY15
			Tone control	Without detent	EVJY95
				Midpoint	EVJY96

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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Specifications

Classification	Item							
Applications		12 mm square Two-in-One						
	Rotation Angle 300 °							
	Rotation Torque	2 mN·m to 20 mN·m						
	Shaft Stopper Strength	0.5 N·m min.	N·m min.					
Mechanical Specifications	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							
	Taper	A, B, C, D, G, BH						
	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.						
Electrical Specifications	Residual Resistance	$\begin{tabular}{ c c c c c } \hline Type & For general put \\ \hline Taper & Terminal \\ Total & A, B, D, G & B, C, G \\ \hline Total & 1 to 2 & 2 to 3 \\ \hline S k \Omega < R < 50 k \Omega & 25 \Omega max. \\ \hline 50 k \Omega < R < 250 k \Omega & 25 \Omega max. \\ \hline 250 k \Omega < R < 500 k \Omega & 100 \Omega max. \\ \hline \end{tabular}$	A, D C 2 to 3 1 to 2 25 Ω max. 50 Ω max. 100 Ω max. 100 Ω max.	A, B, D 1 to 2 15 Ω max. 15 Ω max. 50 Ω max.	or volume cont A, B, D C 2 to 3 1 to 2 25 Ω max. 50 Ω max. 100 Ω max. 100 Ω max.	rol C 2 to 3 20 Ω mai 20 Ω mai 50 Ω mai		
	Maximum Attenuation (for volume control, taper A, B, D)	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Max. Attent -65 dB n -72 dB n -82 dB n	nax. nax. nax.	0.1 dB r			
		100 K42 < K	-92 dB n	IIdX.				
	Tracking	For volume control within ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint	_92 dB n					
	Insulation Resistance	For volume control within $\pm 3 \text{ dB at} -40 \text{ to } 0 \text{ dB}$ For Tone control within $\pm 3 \text{ dB at}$ midpoint 100 M Ω min. at 250 Vdc	92 dB n					
		For volume control within ±3 dB at –40 to 0 dB For Tone control within ±3 dB at midpoint	92 dB n					
	Insulation Resistance	For volume control within $\pm 3 \text{ dB at} -40 \text{ to } 0 \text{ dB}$ For Tone control within $\pm 3 \text{ dB at}$ midpoint 100 M Ω min. at 250 Vdc			l voltage.)			
Endurance	Insulation Resistance Dielectric Withstand Voltage	For volume control within ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ min. at 250 Vdc 300 Vac for 1 minute 47 mV max. Apply 20 V (When Voltage Rating			ł voltage.)			
	Insulation Resistance Dielectric Withstand Voltage Noise Level Operating Life * 1	For volume control within ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ min. at 250 Vdc 300 Vac for 1 minute 47 mV max. Apply 20 V (When Voltage Rating Rotate shaft at 30 r/min. 15000 cycles min.	g < 20 V, use t	he rated	l voltage.) ≤20.0 mm			
	Insulation Resistance Dielectric Withstand Voltage Noise Level Operating Life * 1	For volume control within ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ min. at 250 Vdc 300 Vac for 1 minute 47 mV max. Apply 20 V (When Voltage Rating Rotate shaft at 30 r/min. 15000 cycles min. 80 pcs. (Tray Pack	g < 20 V, use t	he rated	_≦20.0 mm			
Endurance Minimum Quantity/Pac Packing Unit * 2	Insulation Resistance Dielectric Withstand Voltage Noise Level Operating Life * 1	For volume control within ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ min. at 250 Vdc 300 Vac for 1 minute 47 mV max. Apply 20 V (When Voltage Rating Rotate shaft at 30 r/min. 15000 cycles min.	g < 20 V, use t	he rated				

*1 : No direct current should be applied.*2 : With bushing : L=L+7.5 mm

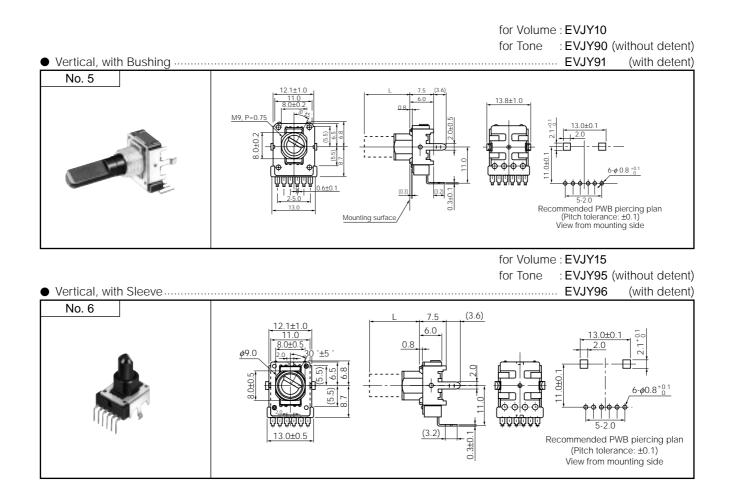
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Dimensions in mm (not to scale) for Volume : EVJC00, EVJC90 : EVJC30, EVJC40 (without detent) for Tone Horizontal, without Bushing EVJC31, EVJC41 (with detent) No. 1 (0.4) 5.2 (1.3)Recommended PWB piercing plan 0.3±0 (Pitch tolerance: ±0.1) View from mounting side for Volume : EVJC20, EVJCB0 : EVJC50, EVJCH0 (without detent) for Tone Horizontal, with Bushing
 EVJC51, EVJCH1 (with detent) No. 2 6.0 (0.4)0.8 M9 P=0 Mounting surfac Recommended PWB piercing plan .0 (Pitch tolerance: ±0.1) (2.5) View from mounting side Mounting surface for Volume : EVJC25, EVJCB5 for Tone : EVJC55, EVJCH5 (without detent) EVJC56, EVJCH6 (with detent) Horizontal, with Sleeve..... No. 3 6.0 (0.4) 0.8 side A Recommended PWB piercing plan .6±0.1 2.0 (Pitch tolerance: ±0.1) 5 3.3 (2.5) View from mounting side Side A for Volume : EVJY00 for Tone : EVJY80 (without detent) (with detent) Vertical, without Bushing
 EVJY81 No. 4 13.8±1.0 13.0±0.5 2 -1-1 5 $|\phi \phi|\phi \phi|$ -\$ 0.8 +0.1 UUUUUUU

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.6±0.1

Recommended PWB piercing plan (Pitch tolerance: ±0.1) View from mounting side



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Circuit Diagram and PWB Piercing Plan

	Volume control without tap	With tap	Tone control
Relation of mounting holes and terminals	$I_{2} \bigcirc \longrightarrow I_{2}$ $I_{2} \bigcirc \longrightarrow I_{2}$ $I_{1} \qquad I_{1}$ $I_{2} \bigcirc \longrightarrow I_{2}$ $I_{1} \qquad I_{1}$ $I_{2} \qquad I_{1} \qquad I_{2}$ $I_{3} \qquad I_{3}$ $I_{3} \qquad I_{2}$ $I_{3} \qquad I_{3}$		$I_{2} \bigcirc \longrightarrow \qquad \qquad$

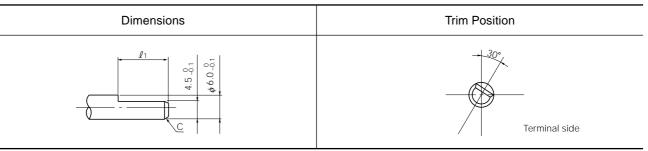
Notes:

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.

■ Shaft Trims and Dimensions in mm



Note: The drawing at full CCW position

				Dimensio	ons in mm	
		Style		Shaft		Bushing, Sleeve
			L	L 1	Corner cut	Q 2
			15.0	4.5	C0.5	_
	Llorizontol		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	_
			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
			15.0	7.0	C1.0	5.0
			17.5	12.0	C1.0	5.0
with			20.0	12.0	C1.0	5.0, 7.0
Bushing		<u>-7.5.¦_</u>	22.5	12.0	C1.0	5.0, 7.0
or with		—	12.5	7.0	C1.0	5.0
Sleeve	Vertical		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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EVJ-Y81F15B54 EVJ-C31F25B53 EVJ-C51F02B14 EVJ-C51F02B53 EVJ-C00F25A14 EVJ-C00F25A24 EVJ-
<u>C00F25A53</u> <u>EVJ-C00F25A54</u> <u>EVJ-C00F25D14</u> <u>EVJ-C00F25D24</u> <u>EVJ-C00F30C15</u> <u>EVJ-C20F02A14</u> <u>EVJ-</u>
<u>C20F02A24</u> <u>EVJ-C20F02A53</u> <u>EVJ-C20F02A54</u> <u>EVJ-C20F02D14</u> <u>EVJ-C20F02D24</u> <u>EVJ-C20F02D53</u> <u>EVJ-</u>
<u>C20F03A15</u> <u>EVJ-C25F02A14</u> <u>EVJ-C25F02A24</u> <u>EVJ-C30F25B15</u> <u>EVJ-C31F25B54</u> <u>EVJ-C50F02B54</u> <u>EVJ-</u>
<u>C50FB6B14</u> EVJ-C50FB6C54 EVJ-C50FB6D24 EVJ-C50FB6D54 EVJ-C51F02B24 EVJ-C51F02B54 EVJ-
C51F03B15 EVJ-C56F02B14 EVJ-C56F02B24 EVJ-C56FC3C54 EVJ-CAHFB614Y EVJ-CAHFB6C15 EVJ-
CAHFB6G54 EVJ-CAJFB6B14 EVJ-CAKFB6651 EVJ-CAKFB6721 EVJ-CC1F02331 EVJ-CC1F02368 EVJ-
<u>CC1F02705</u> <u>EVJ-CV0F30331</u> <u>EVJ-Y00F15A14</u> <u>EVJ-Y00F15A24</u> <u>EVJ-Y00F15A54</u> <u>EVJ-Y00F30A24</u> <u>EVJ-</u>
Y00F30A54 EVJ-Y00F30D14 EVJ-Y00F30D54 EVJ-Y10F03A14 EVJ-Y10F03A24 EVJ-Y10F03A53 EVJ-
Y10F03A54 EVJ-Y10F03D14 EVJ-Y10F03D54 EVJ-Y15F02A14 EVJ-Y15F02B14 EVJ-Y15F02B53 EVJ-
Y15F03A14 EVJ-Y15F03A24 EVJ-Y15F03A53 EVJ-Y15F03A54 EVJ-Y15F03B14 EVJ-Y15F03B54 EVJ-
Y15F03D14 EVJ-Y15F03D53 EVJ-Y15F03D54 EVJ-Y80FH9B14 EVJ-Y80FH9C54 EVJ-Y80FH9C55 EVJ-
Y81F20G53 EVJ-Y81F20G54 EVJ-Y81F30B14 EVJ-Y81F30B24 EVJ-Y81F30B54 EVJ-Y81FH9B54 EVJ-
<u>Y91F03B14</u> EVJ-Y91F03B24 EVJ-Y91F03B53 EVJ-Y91F03B54 EVJ-Y95F01B14 EVJ-Y95F02B53 EVJ-Y95F03A14
EVJ-Y95F03C15 EVJ-Y95F03C25 EVJ-Y95FB6B14 EVJ-Y95FC2B14 EVJ-Y95FC2B15 EVJ-Y95FC2C54 EVJ-
Y95FC2C55 EVJ-Y95FC3B54 EVJ-Y96F03B14 EVJ-Y96F03B53 EVJ-Y96F03B54 EVJ-Y96F03C54 EVJ-
Y96F03C55 EVJ-Y96F03GF4 EVJ-Y96FC2B14