Panasonic

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

Type: EVJC/EVJY

Japan Malaysia



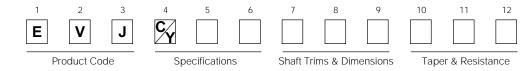
Features

- 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

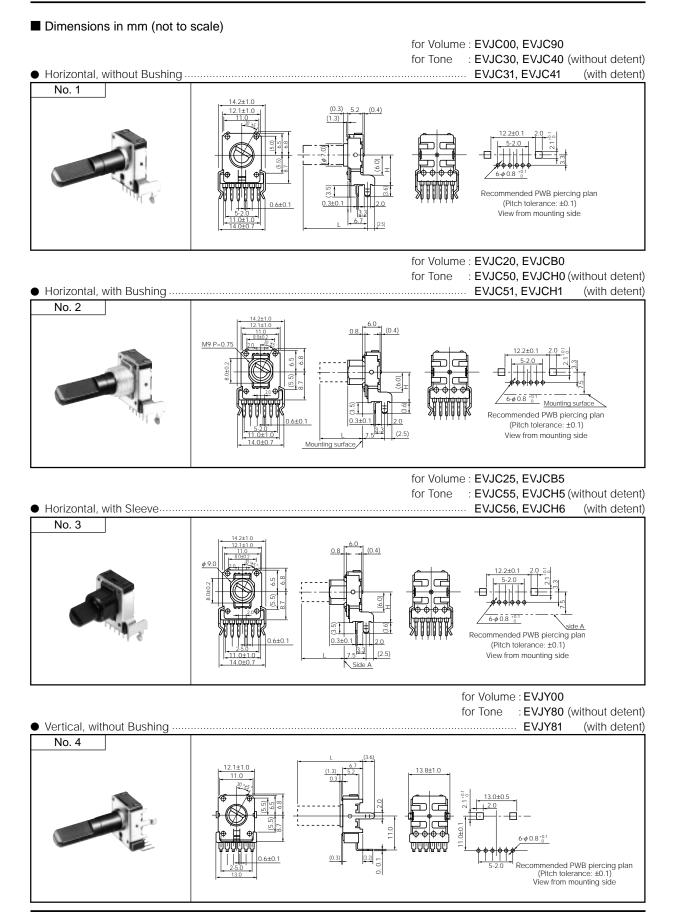
Installation direction	Style	Height (H=mm)	Applications	Detent	Туре
			Volume control	Without detent	EVJC00
	Without bushing	10.0	Tone control	Without detent	EVJC30
				Midpoint	EVJC31
		12.5	Volume control	Without detent	EVJC90
			Tone control	Without detent	EVJC40
				Midpoint	EVJC41
	With bushing	10.0	Volume control	Without detent	EVJC20
			Tana control	Without detent	EVJC50
Horizontal			Tone control	Midpoint	EVJC51
		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
			Volume control	Without detent	EVJY00
Vertical	Without bushing		Tana aantaal	Without detent	EVJY80
			Tone control	Midpoint	EVJY81
	With bushing	_	Volume control	Without detent	EVJY10
			Tone control	Without detent	EVJY90
				Midpoint	EVJY91
			Volume control	Without detent	EVJY15
	With sleeve	_	Tone control	Without detent	EVJY95
				Midpoint	EVJY96

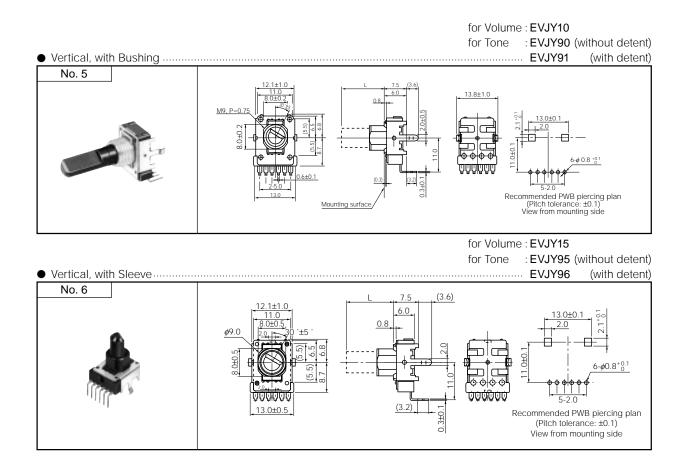
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Specifications

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.						
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.						
	Residual Resistance	Type For general pu Taper & Terminal A, B, D, G B, C, G Total 1 to 2 2 to 3	A, D C 2 to 3 1 to 2	F A, B, D 1 to 2	or volume cont A, B, D C 2 to 3 1 to 2	rol C 2 to 3		
		$\frac{\text{Resistance}}{5 \text{ k}\Omega < \text{R} < 50 \text{ k}\Omega} = 25 \Omega \text{ max.}$	210 5 Π H0 2 25 Ω max.	15 Ω max.	25 Ω max.	2 10 3 20 Ω mai		
Electrical		$50 \text{ k}\Omega < \text{R} < 250 \text{ k}\Omega \qquad 25 \Omega \text{ max}.$	50 Ω max.	15 <u>Ω</u> max.	50 Ω max.	20 Ω ma		
Specifications		$250 \text{ k}\Omega < \text{R} < 500 \text{ k}\Omega \qquad 100 \ \Omega \text{ max}.$	100 Ω max.	50 Ω max.	100 Ω max.	50 Ω ma		
	Maximum Attenuation (for volume control,	Nominal total resistance	Max. Atten	uation	Insertion	loss		
		$5 \text{ k}\Omega < \text{R} < 10 \text{ k}\Omega$ -65 dB mat			(
				IB max. 0.1 dB max.		nax.		
	taper A, B, D)	$\frac{50 \text{ k}\Omega < \text{R} < 100 \text{ k}\Omega}{100 \text{ k}\Omega < \text{R}} = \frac{-92 \text{ dB max}}{-92 \text{ dB max}}$						
	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 Withstand Voltage	e 300 Vac for 1 minute						
	Noise Level	47 mV max. Apply 20 V (When Voltage Rating < 20 V, use the rated voltage.) Rotate shaft at 30 r/min.						
ndurance	Operating Life *1	15000 cycles min.						
	king Unit •2	80 pcs. (Tray Pack)			L≦20.0 mm			
1inimum Quantity/Pac		60 pcs. (Tray Pack)	L>20.0 mm				
Packing Unit * 2		800 pcs.		L≦20.0 mm				
		600 pcs.			_>20.0 mm			

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





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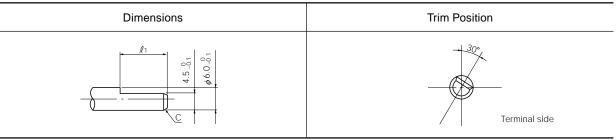
Circuit Diagram and PWB Piercing Plan

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

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

			Dimensions in mm			
	Style			Shaft		
			L	Q ₁	Corner cut	Q 2
			15.0	4.5	C0.5	_
	Lissimontal		20.0	7.0	C1.0	_
	Horizontal		25.0	12.0	C1.0	_
without			30.0	12.0	C1.0	_
Bushing		<u>L</u> (<u>6.7.</u>)	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	_
		—	12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0
	Horizontal		17.5	12.0	C1.0	5.0
with			20.0	12.0	C1.0	5.0, 7.0
Bushing		<u>+</u> /.5 <u>}</u> - ∟	22.5	12.0	C1.0	5.0, 7.0
or with		F -1	12.5	7.0	C1.0	5.0
Sleeve			15.0	7.0	C1.0	5.0
	Vertical		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