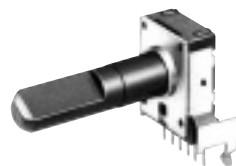


12 mm Square Two-in-One Rotary Potentiometers (Dual Type)

Japan
Malaysia

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

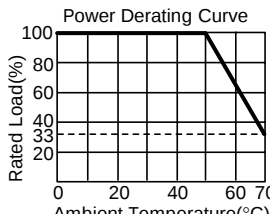
■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	V	J	CY								
Product Code			Specifications			Shaft Trims & Dimensions			Taper & Resistance		

■ Product Chart

Installation direction	Style	Height (H=mm)	Applications	Detent	Type
Horizontal	Without bushing	10.0	Volume control	Without detent	EVJC00
			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
			Tone control	Without detent	EVJC50
				Midpoint	EVJC51
		12.5	Volume control	Without detent	EVJCB0
			Tone control	Without detent	EVJCH0
				Midpoint	EVJCH1
Vertical	Without bushing	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
	With bushing	—	Volume control	Without detent	EVJY00
			Tone control	Without detent	EVJY80
				Midpoint	EVJY81
		—	Volume control	Without detent	EVJY10
			Tone control	Without detent	EVJY90
				Midpoint	EVJY91
	With sleeve	—	Volume control	Without detent	EVJY15
			Tone control	Without detent	EVJY95
				Midpoint	EVJY96

Specifications

Classification	Item																																																		
Applications	12 mm square Two-in-One																																																		
Mechanical Specifications	Rotation Angle	300 °																																																	
	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.																																																	
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 operating in ambient temperatures above 50 °C, Rating should be derated in accordance with the figure on the right. Power Derating Curve 																																																	
	Residual Resistance	<table><tr><th rowspan="3">Type Taper & Terminal Nominal Total Resistance</th><th colspan="4">For general purpose (tone)</th><th colspan="4">For volume control</th></tr><tr><th>A, B, D, G 1 to 2</th><th>B, C, G 2 to 3</th><th>A, D 2 to 3</th><th>C 1 to 2</th><th>A, B, D 1 to 2</th><th>A, B, D 2 to 3</th><th>C 1 to 2</th><th>C 2 to 3</th></tr><tr><td>5 kΩ < R < 50 kΩ</td><td>25 Ω max.</td><td></td><td>25 Ω max.</td><td></td><td>15 Ω max.</td><td>25 Ω max.</td><td>20 Ω max.</td></tr><tr><td>50 kΩ < R < 250 kΩ</td><td>25 Ω max.</td><td></td><td>50 Ω max.</td><td></td><td>15 Ω max.</td><td>50 Ω max.</td><td>20 Ω max.</td></tr><tr><td>250 kΩ < R < 500 kΩ</td><td>100 Ω max.</td><td></td><td>100 Ω max.</td><td></td><td>50 Ω max.</td><td>100 Ω max.</td><td>50 Ω max.</td></tr></table>									Type Taper & Terminal Nominal Total Resistance	For general purpose (tone)				For volume control				A, B, D, G 1 to 2	B, C, G 2 to 3	A, D 2 to 3	C 1 to 2	A, B, D 1 to 2	A, B, D 2 to 3	C 1 to 2	C 2 to 3	5 kΩ < R < 50 kΩ	25 Ω max.		25 Ω max.		15 Ω max.	25 Ω max.	20 Ω max.	50 kΩ < R < 250 kΩ	25 Ω max.		50 Ω max.		15 Ω max.	50 Ω max.	20 Ω max.	250 kΩ < R < 500 kΩ	100 Ω max.		100 Ω max.		50 Ω max.	100 Ω max.	50 Ω max.
	Type Taper & Terminal Nominal Total Resistance	For general purpose (tone)				For volume control																																													
		A, B, D, G 1 to 2	B, C, G 2 to 3	A, D 2 to 3	C 1 to 2	A, B, D 1 to 2	A, B, D 2 to 3	C 1 to 2	C 2 to 3																																										
		5 kΩ < R < 50 kΩ	25 Ω max.		25 Ω max.		15 Ω max.	25 Ω max.	20 Ω max.																																										
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	250 kΩ < R < 500 kΩ	100 Ω max.		100 Ω max.		50 Ω max.	100 Ω max.	50 Ω max.																																											
	Maximum Attenuation (for volume control, taper A, B, D)	<table><tr><th>Nominal total resistance</th><th>Max. Attenuation</th><th>Insertion loss</th></tr><tr><td>5 kΩ < R < 10 kΩ</td><td>−65 dB max.</td><td rowspan="4">0.1 dB max.</td></tr><tr><td>10 kΩ < R < 50 kΩ</td><td>−72 dB max.</td></tr><tr><td>50 kΩ < R < 100 kΩ</td><td>−82 dB max.</td></tr><tr><td>100 kΩ < R</td><td>−92 dB max.</td></tr></table>									Nominal total resistance	Max. Attenuation	Insertion loss	5 kΩ < R < 10 kΩ	−65 dB max.	0.1 dB max.	10 kΩ < R < 50 kΩ	−72 dB max.	50 kΩ < R < 100 kΩ	−82 dB max.	100 kΩ < R	−92 dB max.																													
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100 kΩ < R	−92 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	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.																																																		
Endurance	Operating Life *1	15000 cycles min.																																																	
Minimum Quantity/Packing Unit *2		80 pcs. (Tray Pack)				L≤20.0 mm																																													
		60 pcs. (Tray Pack)				L>20.0 mm																																													
Packing Unit *2		800 pcs.				L≤20.0 mm																																													
		600 pcs.				L>20.0 mm																																													

*1 : No direct current should be applied.

*2 : With bushing : L=L+7.5 mm

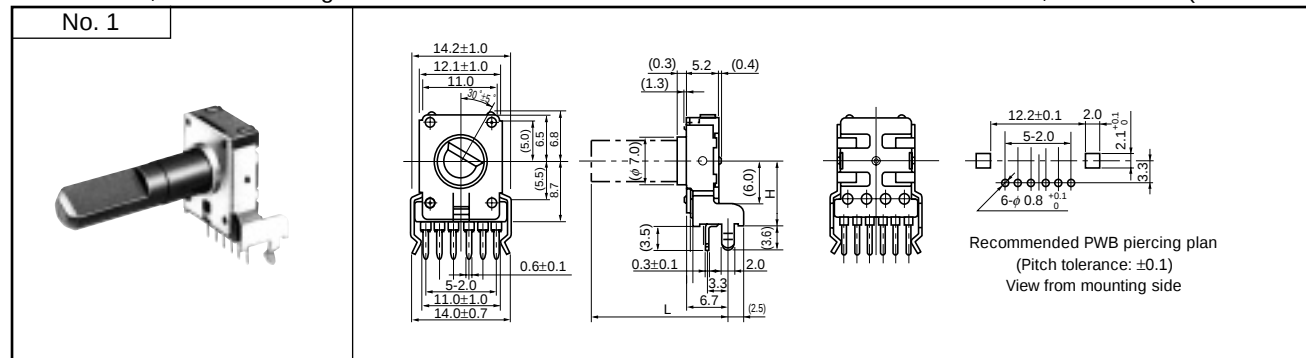
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

for Volume : EVJC00, EVJC90

for Tone : EVJC30, EVJC40 (without detent)

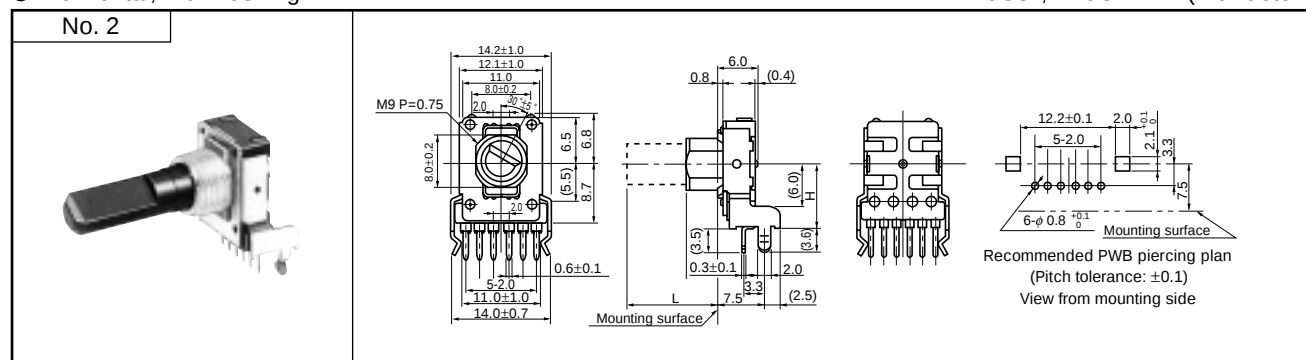
● Horizontal, without Bushing EVJC31, EVJC41 (with detent)



for Volume : EVJC20, EVJCB0

for Tone : EVJC50, EVJCH0 (without detent)

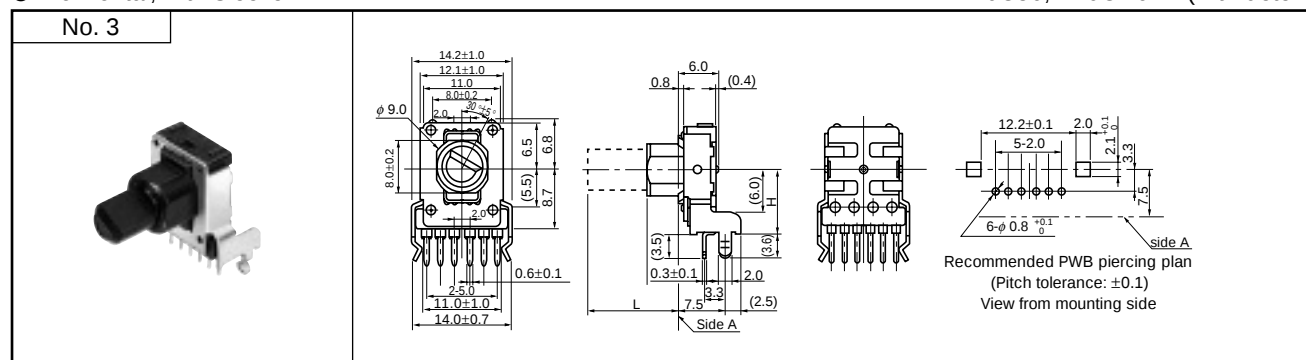
● Horizontal, with Bushing EVJC51, EVJCH1 (with detent)



for Volume : EVJC25, EVJCB5

for Tone : EVJC55, EVJCH5 (without detent)

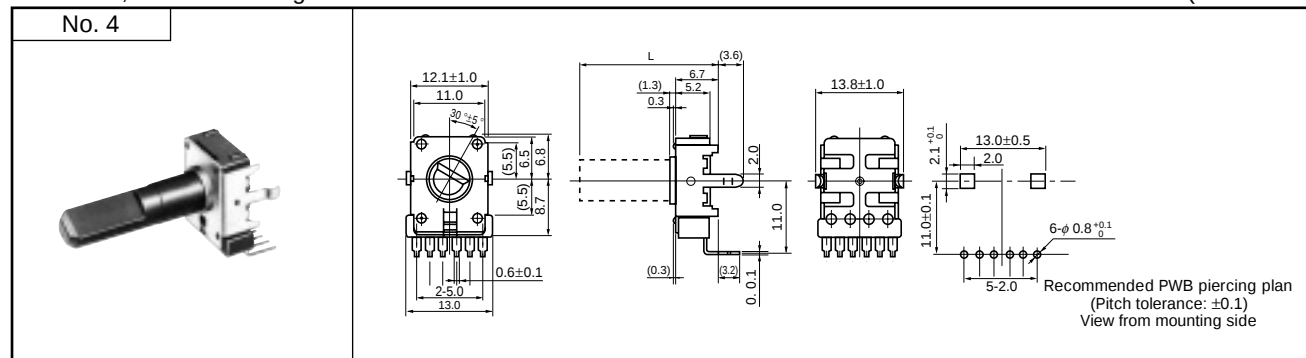
● Horizontal, with Sleeve EVJC56, EVJCH6 (with detent)



for Volume : EVJY00

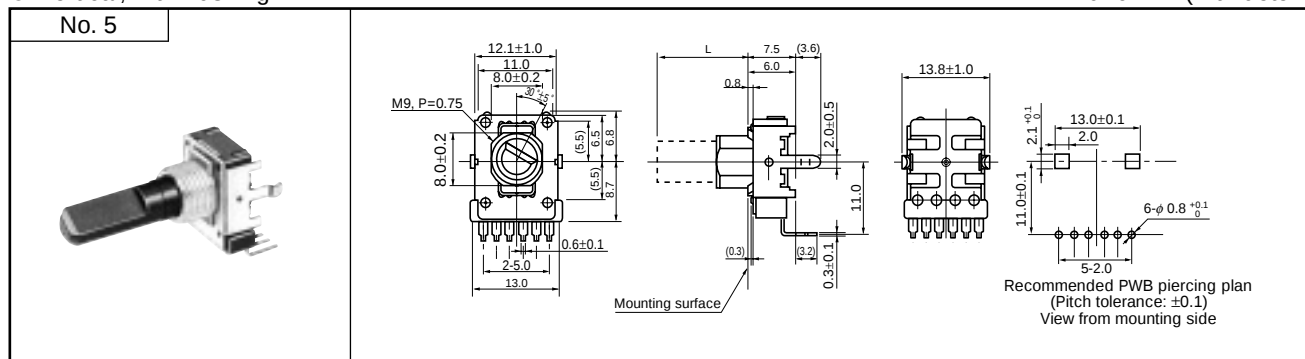
for Tone : EVJY80 (without detent)

● Vertical, without Bushing EVJY81 (with detent)



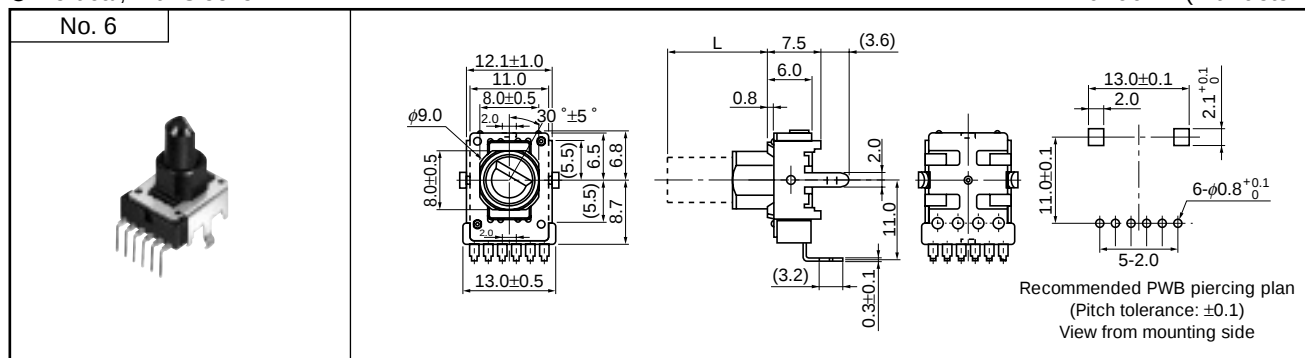
for Volume : EVJY10
 for Tone : EVJY90 (without detent)
 EVJY91 (with detent)

● Vertical, with Bushing



for Volume : EVJY15
 for Tone : EVJY95 (without detent)
 EVJY96 (with detent)

● Vertical, with Sleeve



■ 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.

■ Shaft Trims and Dimensions in mm

Dimensions	Trim Position

Note: The drawing at full CCW position

Style			Dimensions in mm			
			Shaft			Bushing, Sleeve
			L	l ₁	Corner cut	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	—
			30.0	12.0	C1.0	—
with Bushing or with Sleeve	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
	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
			12.5	7.0	C1.0	5.0
			15.0	7.0	C1.0	5.0

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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