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

1	2	3	4	5	6	7	8	9	10	11	12
Ε	V	J	CY								
Product Code		Spe	ecification	าร	Shaft Tr	ims & Dim	nensions	Тар	er & Resis	tance	

#### ■ Product Chart

Installation direction	Style	Height (H=mm)	Applications	Detent	Туре
			Volume control	Without detent	EVJC00
	1	10.0	Tone control	Without detent	EVJC30
	Mithaut bushing		Tone Control	Midpoint	EVJC31
	Without bushing	12.5	Volume control	Without detent	EVJC90
			Tone control	Without detent	EVJC40
			Tone Control	Midpoint	EVJC41
			Volume control	Without detent	EVJC20
	With bushing	10.0	Tone control	Without detent	EVJC50
Horizontal			Tone Control	Midpoint	EVJC51
ПОПZОПІАІ			Volume control	Without detent	EVJCB0
		12.5	Tone control	Without detent	EVJCH0
			Tone Control	Midpoint	EVJCH1
	With sleeve	10.0	Volume control	Without detent	EVJC25
			Tone control	Without detent	EVJC55
			Torie Control	Midpoint	EVJC56
		12.5	Volume control	Without detent	EVJCB5
			Tone control	Without detent	EVJCH5
			Tone Control	Midpoint	EVJCH6
			Volume control	Without detent	EA1A00
	Without bushing	_	Tone control	Without detent	EVJY80
			Tone Control	Midpoint	EVJY81
			Volume control	Without detent	EVJY10
Vertical	With bushing	_	Tone control	Without detent	EVJY90
			Tone Contion	Midpoint	EVJY91
			Volume control	Without detent	EVJY15
	With sleeve	_	Tone control	Without detent	EVJY95
			Tone control	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.							
opeomedions.	Shaft Inclination (Measured at the top of the shaft)	0.35 mm max.							
	Bushing-Nut Tightening Torque	1 N·m max.							
	Nominal Total Resistance	$5$ k $\Omega$ to 500 k $\Omega$ (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							
Electrical Specifications	Residual Resistance		A, D C 2 to 3 1 to 2 25 Ω max. 50 Ω max.	F. A, B, D 1 to 2 15 Ω max. 15 Ω max. 50 Ω max.	Or volume control  A, B, D  C  2 to 3  1 to 2  25 Ω max.  50 Ω max.  100 Ω max.	C 2 to 3 20 Ω max 20 Ω max 50 Ω max			
	Maximum Attenuation (for volume control,	Nominal total resistance $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-65 dB m	Max. Attenuation  -65 dB max.  -72 dB max.		Insertion loss			
	taper A, B, D)	$\frac{10 \text{ k}\Omega < R < 30 \text{ k}\Omega}{50 \text{ k}\Omega < R < 100 \text{ k}\Omega}$	-82 dB max.		0.1 dB max.				
		100 kΩ < R		3 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 Ratinç Rotate shaft at 30 r/min.	g < 20 V, use th	ne ratec	voltage.)				
Endurance	Operating Life *1	15000 cycles min.							
		80 pcs. (Tray Pack	)	L≦20.0 mm					
				L>20.0 mm					
Minimum Quantity/Pac	king Unit <b>*</b> 2	60 pcs. (Tray Pack	)	L	>20.0 mm				
Minimum Quantity/Pac Packing Unit *2	king Unit <b>*</b> 2	60 pcs. (Tray Pack 800 pcs.	)		_>20.0 mm _≤20.0 mm				

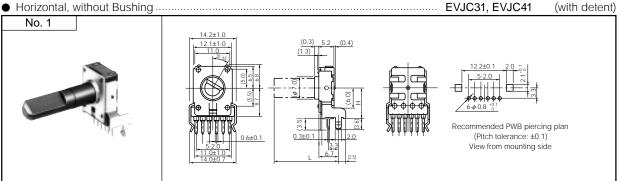
<sup>\*1 :</sup> No direct current should be applied. \*2 : With bushing : L=L+7.5 mm

#### ■ Dimensions in mm (not to scale)

for Volume: EVJC00, EVJC90

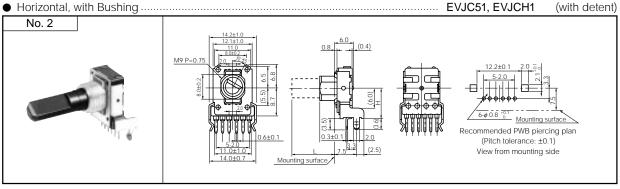
for Tone : EVJC30, EVJC40 (without detent) (with detent)

No. 1



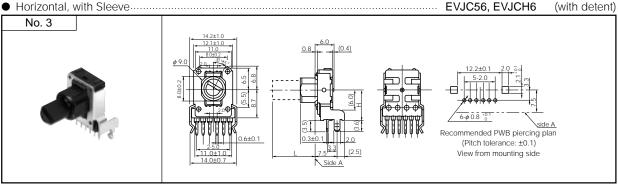
for Volume: EVJC20, EVJCB0

: EVJC50, EVJCH0 (without detent) for Tone (with detent)



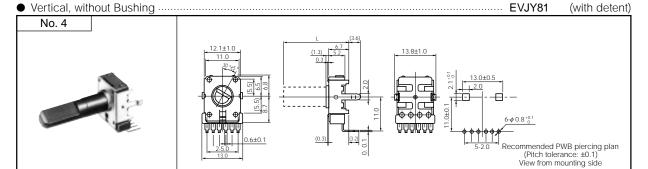
for Volume: EVJC25, EVJCB5

for Tone : EVJC55, EVJCH5 (without detent) EVJC56, EVJCH6 (with detent)



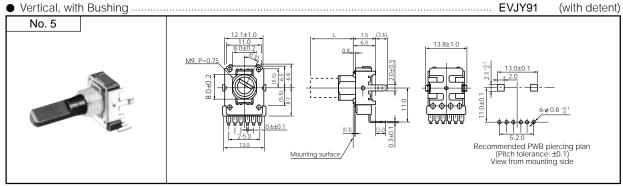
for Volume : EVJY00

for Tone : EVJY80 (without detent)



for Volume : EVJY10

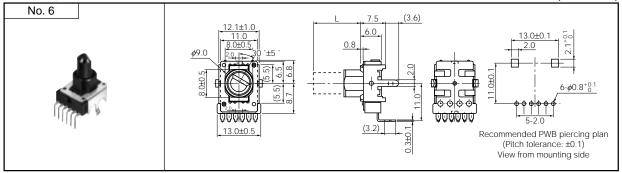
for Tone : EVJY90 (without detent)



for Volume : EVJY15

for Tone : EVJY95 (without detent)

● Vertical, with Sleeve ...... EVJY96 (with detent)



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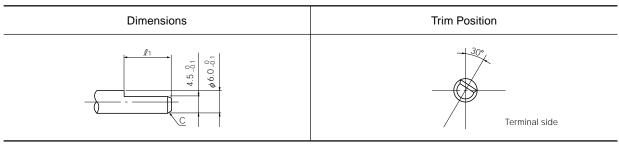
# ■ Circuit Diagram and PWB Piercing Plan

	Volume control without tap	With tap	Tone control
Relation of mounting holes and terminals	$I_{2} \bigcirc \qquad $		$\begin{array}{cccccccccccccccccccccccccccccccccccc$

#### 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

Style				Dimensions in mm					
				Shaft					
				<b>Q</b> <sub>1</sub>	Corner cut	<b>Q</b> 2			
		F	15.0	4.5	C0.5	_			
	Horizontal	<del></del>	20.0	7.0	C1.0	_			
			25.0	12.0	C1.0	_			
without		6.7 L	30.0	12.0	C1.0	_			
Bushing	Vertical	*6.7.	15.0	4.5	C0.5	_			
		6.7 	20.0	7.0	C1.0	_			
		<del>-</del>	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 or			22.5	12.0	C1.0	5.0, 7.0			
with	Vertical		12.5	7.0	C1.0	5.0			
Sleeve			15.0	7.0	C1.0	5.0			
		<del></del>	17.5	12.0	C1.0	5.0			
			20.0	12.0	C1.0	5.0, 7.0			
		-1.3 <sub>- </sub>	22.5	12.0	C1.0	5.0, 7.0			

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.