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
	With bushing	10.0	Volume control	Without detent	EVJC20
			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

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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					
Mechanical Specifications	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.					
	Nominal Total Resistance						
	Taper	A, B, C, D, G, BH					
Electrical Specifications	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	$\begin{tabular}{ c c c c c } \hline Type & For general put \\ \hline Taper & Terminal \\ Total & A, B, D, G & B, C, G \\ \hline Total & 1 to 2 & 2 to 3 \\ \hline S k \Omega < R < 50 k \Omega & 25 \Omega max. \\ \hline 50 k \Omega < R < 250 k \Omega & 25 \Omega max. \\ \hline 250 k \Omega < R < 500 k \Omega & 100 \Omega max. \\ \hline \end{tabular}$	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)	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	-65 dB n -72 dB m -82 dB n	ax. Attenuation Insertion -65 dB max. -72 dB max. -82 dB max. -92 dB max.			
		100 K42 < K	-92 dB n	lidX.			
	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 ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ 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 ±3 dB at -40 to 0 dB For Tone control within ±3 dB at midpoint 100 MΩ 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

		Dimensions 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	_
		—	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>-7.5.¦_</u>	22.5	12.0	C1.0	5.0, 7.0
or with		—	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

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