Panasonic

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

Type: EVJC/EVJY

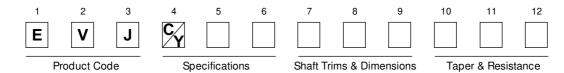
Japan Malaysia



- 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 EquipmentVideo Equipment
- Electronic Musical Instruments

Explanation of Part Numbers



Product Chart

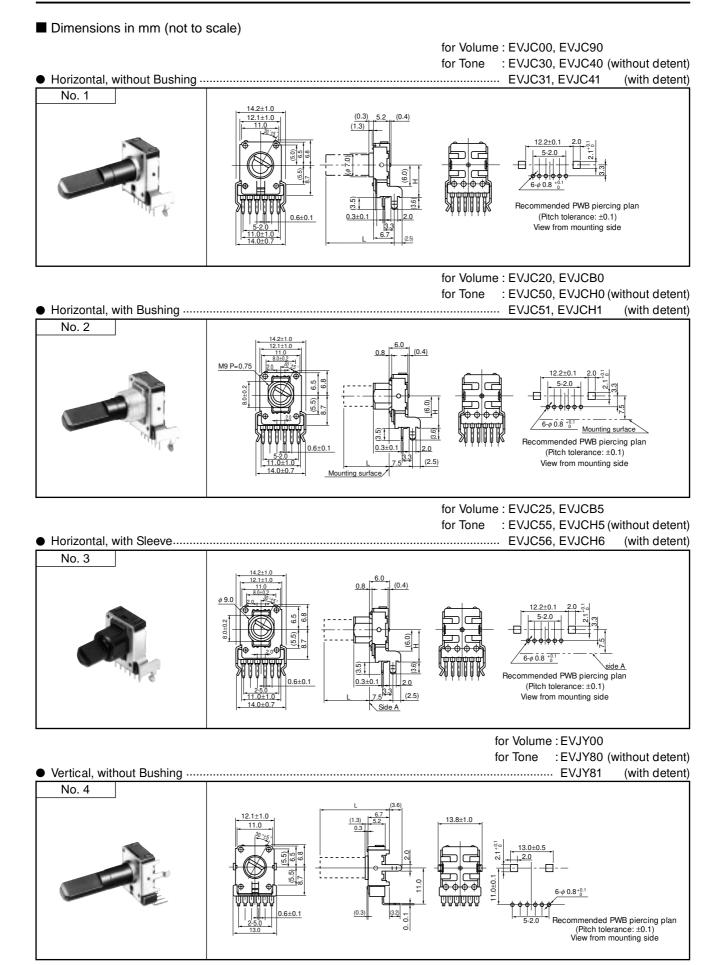
nstallation direction	Style	Height (H=mm)	Applications	Detent	Туре
			Volume control	Without detent	EVJC00
	Without bushing	10.0	Transformetural	Without detent	EVJC30
			Tone control	Midpoint	EVJC31
		12.5	Volume control	Without detent	EVJC90
			Tone control	Without detent	EVJC40
			Tone control	Midpoint	EVJC41
	With bushing	10.0	Volume control	Without detent	EVJC20
Horizontal			Tone control	Without detent	EVJC50
				Midpoint	EVJC51
			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
				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
Vertical				Midpoint	EVJY81
	With bushing	_	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

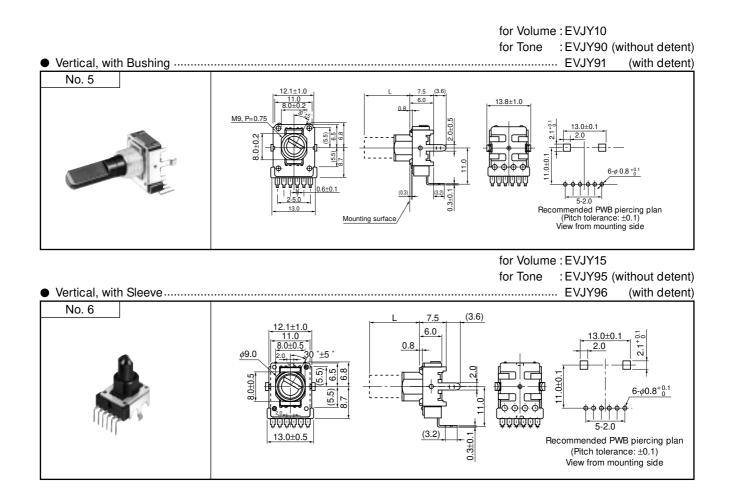
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Specifications

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. Power Derating Curves 20 $\frac{80}{100}$ $\frac{100}{100}$						
Electrical Specifications	Residual Resistance	$\begin{tabular}{ c c c c c }\hline \hline Type & For general put \\\hline Taper & Terminal \\Total & A, B, D, G & B, C, G \\\hline Total & 1 to 2 & 2 to 3 \\\hline Resistance & 5 k\Omega < R < 50 k\Omega & 25 \Omega max. \\\hline 50 k\Omega < R < 250 k\Omega & 25 \Omega max. \\\hline 250 k\Omega < R < 500 k\Omega & 100 \Omega max. \\\hline \end{tabular}$	A, D C 2 to 3 1 to 2 25 Ω max. 50 Ω max.	F 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.	rol C 2 to 3 20 Ω max 20 Ω max 50 Ω max		
	Maximum Attenuation (for volume control, taper A, B, D)	$\begin{tabular}{ c c c c c c } \hline Nominal total resistance & Max. Attent \\ \hline 5 & $k\Omega < R < 10 & $k\Omega$ & -65 dB \\ \hline 10 & $k\Omega < R < 50 & $k\Omega$ & -72 dB \\ \hline 50 & $k\Omega < R < 100 & $k\Omega$ & -82 dB \\ \hline 100 & $k\Omega < R$ & -92 dB \\ \hline \end{tabular}$		nax. nax. nax.	 0.1 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.						
ndurance	Operating Life *1	15000 cycles min.						
		80 pcs. (Tray Pack)			L≦20.0 mm			
		ou pus. (hay rack			L>20.0 mm			
linimum Quantity/Pac	king Unit * 2	60 pcs. (Tray Pack		l	_>20.0 mm			
/linimum Quantity/Pac Packing Unit *2	king Unit * 2				_>20.0 mm _≦20.0 mm			

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





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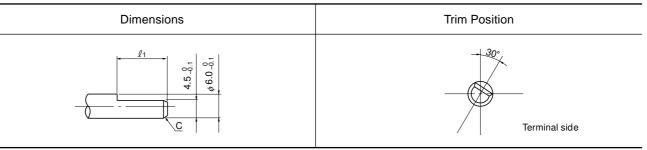
Circuit Diagram and PWB Piercing Plan

	Volume control without tap	With tap	Tone control
Relation of mounting holes and terminals	$I_{2} \bigcirc \longrightarrow I_{1} \qquad I_{3} \qquad I_{3} \\ I_{2} \bigcirc \longrightarrow I_{1} \qquad I_{1} \qquad I_{1} \\ I_{1} \qquad I_{1} \qquad I_{1} \\ I_{1} \qquad $		$I_{2} \bigcirc \longrightarrow I_{3} \qquad I_{3} \qquad I_{3} \qquad I_{2} \\ I_{1} & I_{1} \\ - \Box & + - \Box $
	I I I I I I2 I1 II1 II2 II3 I3		I I I I I I I2 I1 II1 II2 II3 I3

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			Bushing, Sleeve
	-		L	l 1	Corner cut	Q 2
			15.0	4.5	C0.5	
			20.0	7.0	C1.0	
	Horizontal		25.0	12.0	C1.0	_
without			30.0	12.0	C1.0	_
Bushing		L [6.7]	15.0	4.5	C0.5	_
	Martial		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> _ L	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
		<i>⊈_</i> ↓7.5 L	20.0	12.0	C1.0	5.0, 7.0
			22.5	12.0	C1.0	5.0, 7.0