

阅读申明

- 1.本站收集的数据手册和产品资料都来自互联网，版权归原作者所有。如读者和版权方有任何异议请及时告之，我们将妥善解决。
- 2.本站提供的中文数据手册是英文数据手册的中文翻译，其目的是协助用户阅读，该译文无法自动跟随原稿更新，同时也可能存在翻译上的不当。建议读者以英文原稿为参考以便获得更精准的信息。
- 3.本站提供的产品资料，来自厂商的技术支持或者使用者的心得体会等，其内容可能存在描述上的差异，建议读者做出适当判断。
- 4.如需与我们联系，请发邮件到marketing@iczoom.com，主题请标有“数据手册”字样。

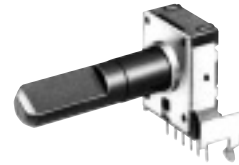
Read Statement

1. The datasheets and other product information on the site are all from network reference or other public materials, and the copyright belongs to the original author and original published source. If readers and copyright owners have any objections, please contact us and we will deal with it in a timely manner.
2. The Chinese datasheets provided on the website is a Chinese translation of the English datasheets. Its purpose is for reader's learning exchange only and do not involve commercial purposes. The translation cannot be automatically updated with the original manuscript, and there may also be improper translations. Readers are advised to use the English manuscript as a reference for more accurate information.
3. All product information provided on the website refer to solutions from manufacturers' technical support or users the contents may have differences in description, and readers are advised to take the original article as the standard.
4. If you have any questions, please contact us at marketing@iczoom.com and mark the subject with "Datasheets" .

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



■ 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
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	
Vertical	Without bushing	—	Volume control	Without detent	EVJY00
			Tone control	Without detent	EVJY80
				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

■ 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. <div style="text-align: right;"> <p>Power Derating Curve</p> <table border="1"> <caption>Power Derating Curve Data</caption> <thead> <tr> <th>Ambient Temperature (°C)</th> <th>Rated Load (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>100</td></tr> <tr><td>20</td><td>100</td></tr> <tr><td>40</td><td>100</td></tr> <tr><td>50</td><td>100</td></tr> <tr><td>60</td><td>66.7</td></tr> <tr><td>70</td><td>33.3</td></tr> </tbody> </table> </div>	Ambient Temperature (°C)	Rated Load (%)	0	100	20	100	40	100	50	100	60	66.7	70	33.3																													
	Ambient Temperature (°C)	Rated Load (%)																																											
	0	100																																											
	20	100																																											
	40	100																																											
	50	100																																											
	60	66.7																																											
	70	33.3																																											
Residual Resistance	<table border="1"> <thead> <tr> <th rowspan="2">Type Taper & Terminal</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> </thead> <tbody> <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></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></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></td> <td>50 Ω max.</td> </tr> </tbody> </table>	Type Taper & Terminal	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	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.																																					
Maximum Attenuation (for volume control, taper A, B, D)	<table border="1"> <thead> <tr> <th>Nominal total resistance</th> <th>Max. Attenuation</th> <th rowspan="4">Insertion loss 0.1 dB max.</th> </tr> </thead> <tbody> <tr> <td>5 kΩ < R < 10 kΩ</td> <td>-65 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> <td></td> </tr> </tbody> </table>	Nominal total resistance	Max. Attenuation	Insertion loss 0.1 dB max.	5 kΩ < R < 10 kΩ	-65 dB max.	10 kΩ < R < 50 kΩ	-72 dB max.	50 kΩ < R < 100 kΩ	-82 dB max.	100 kΩ < R	-92 dB max.																																	
Nominal total resistance	Max. Attenuation	Insertion loss 0.1 dB max.																																											
5 kΩ < R < 10 kΩ	-65 dB max.																																												
10 kΩ < R < 50 kΩ	-72 dB max.																																												
50 kΩ < R < 100 kΩ	-82 dB max.																																												
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.

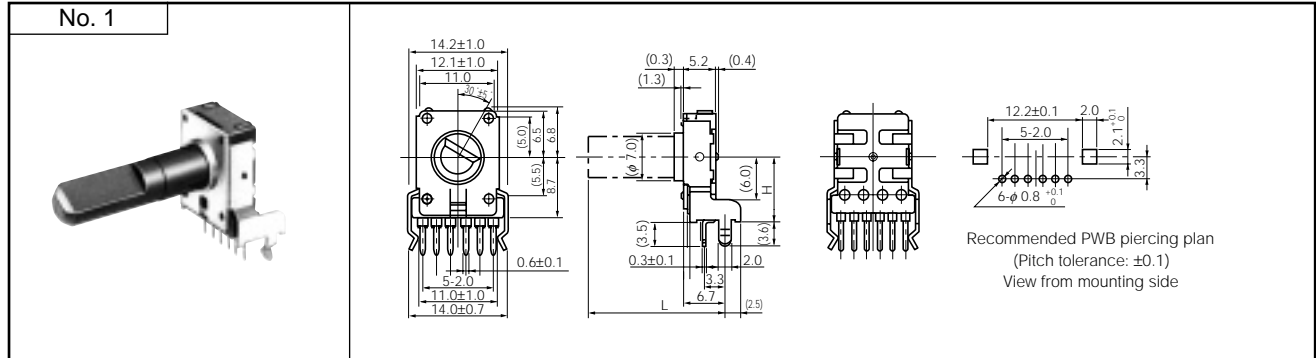
*2 : With bushing : L=L+7.5 mm

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)

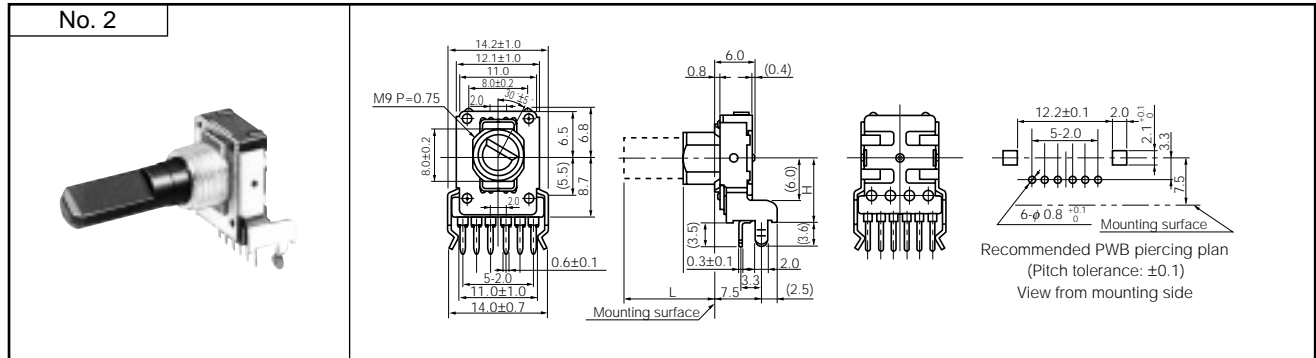
for Volume : EVJC00, EVJC90
 for Tone : EVJC30, EVJC40 (without detent)
 EVJC31, EVJC41 (with detent)

● Horizontal, without Bushing



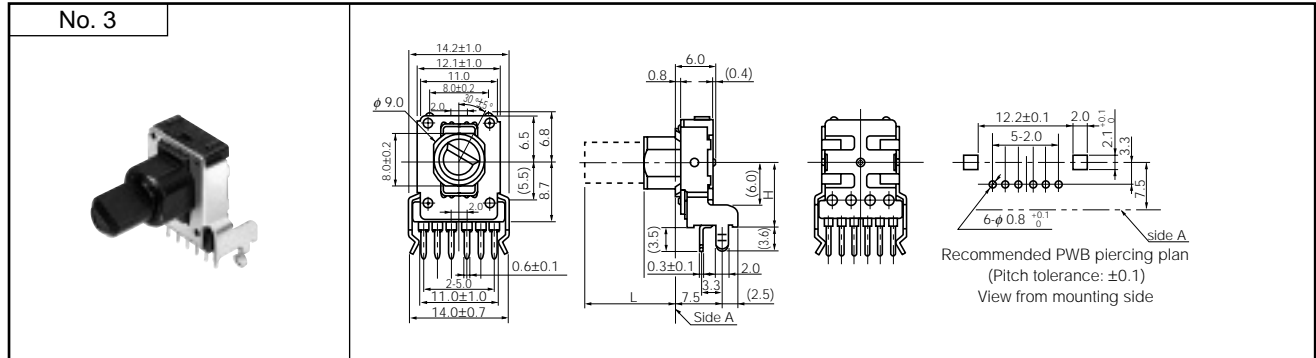
for Volume : EVJC20, EVJCB0
 for Tone : EVJC50, EVJCH0 (without detent)
 EVJC51, EVJCH1 (with detent)

● Horizontal, with Bushing



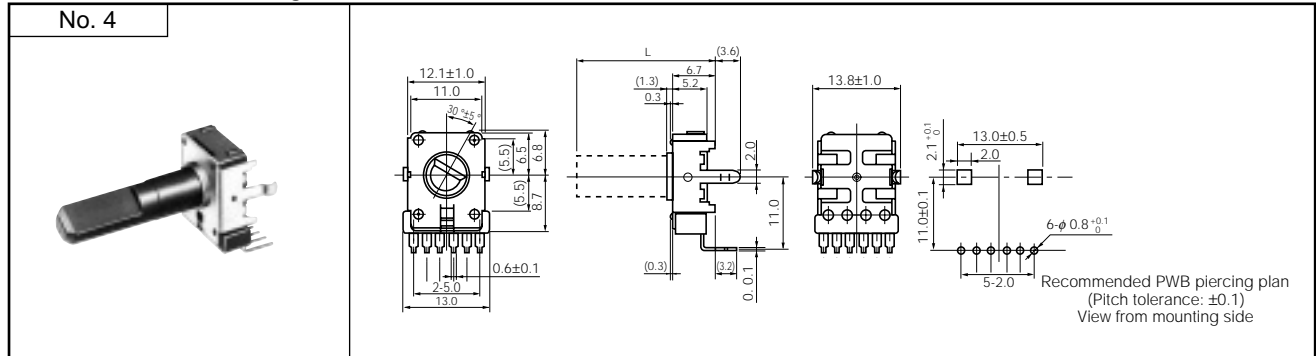
for Volume : EVJC25, EVJCB5
 for Tone : EVJC55, EVJCH5 (without detent)
 EVJC56, EVJCH6 (with detent)

● Horizontal, with Sleeve



for Volume : EVJY00
 for Tone : EVJY80 (without detent)
 EVJY81 (with detent)

● Vertical, without Bushing



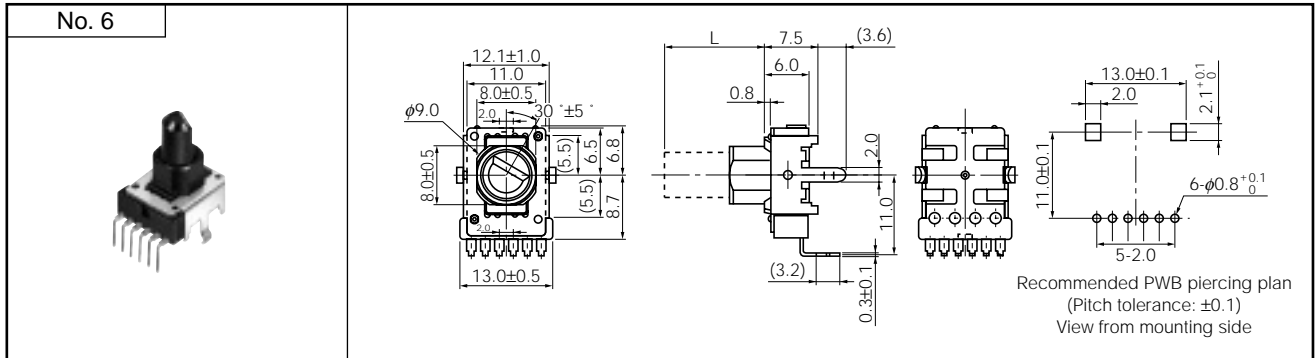
for Volume : EVJY10
 for Tone : EVJY90 (without detent)
 EVJY91 (with detent)

● 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

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.