

9 mm Square Rotary Potentiometers
with Insulated Shaft

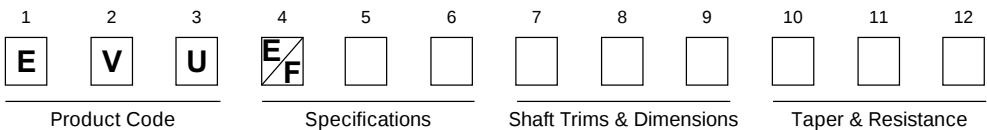
Japan
Malaysia

Type: **EVUE/EVUF**

- Features
 - Multi-gang block can be provided upon request
 - DC voltage available
 - Rigid rectangular shape suited for automatic insertion

- Recommended Applications
 - Audio Equipment
 - Video Equipment
 - Electronic Musical Instruments
 - Audio Mixers

■ Explanation of Part Numbers



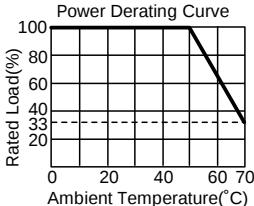
■ Product Chart

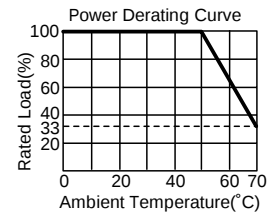
Construction	Style	Height (H=mm)	Detent	Type
Horizontal	Without bushing	6.5	Without detent	EVUE20
			Midpoint	EVUE30
		10.0	Without detent	EVUE2A
			Midpoint	EVUE3A
		12.5	Without detent	EVUE21
			Midpoint	EVUE31
	With bushing	6.5	Without detent	EVUE25
			Midpoint	EVUE35
		10.0	Without detent	EVUE2J
			Midpoint	EVUE3J
	With sleeve	6.5	Without detent	EVUE27
			Midpoint	EVUE37
		10.0	Without detent	EVUE2K
			Midpoint	EVUE3K
Vertical	Without bushing	—	Without detent	EVUF2A
			Midpoint	EVUF3A
	With bushing	7.5	Without detent	EVUF2J
			Midpoint	EVUF3J
		8.5	Without detent	EVUF2M
			Midpoint	EVUF3M
	With sleeve	7.5	Without detent	EVUF2K
			Midpoint	EVUF3K
		8.5	Without detent	EVUF2L
			Midpoint	EVUF3L

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.

Nov. 2005

■ Specifications

Classification	Item	Type without bushing	Type with bushing	Type with sleeve																																		
Mechanical Specifications	Rotation Angle	300 °																																				
	Rotation Torque	1 mN·m to 8 mN·m (after rotation started)	1 mN·m to 20 mN·m (after rotation started)	1 mN·m to 20 mN·m (after rotation started)																																		
	Shaft Stopper Strength	300 mN·m																																				
	Shaft wobble	● Shaft bend and shaft wobble shall be $0.8 \times \frac{L}{20}$ (mm) max. (for one side) (When moment of 25 mN·m is applied.) ● L=Distance between mounting surface and measuring point	● Shaft bend and shaft wobble shall be $0.5 \times \frac{L}{30}$ (mm) max. (for one side) (When moment of 50 mN·m is applied.) ● L=Distance between mounting surface and measuring point	● Shaft bend and shaft wobble shall be $0.7 \times \frac{L}{30}$ (mm) max. (for one side) (When moment of 50 mN·m is applied.) ● L=Distance between mounting surface and measuring point																																		
	Shaft Pull/Push Strength	Push strength : 100 N min. Pull strength : 100 N min.	Push strength : 100 N min. Pull strength : 100 N min.	Push strength : 100 N min. Pull strength : 100 N min.																																		
	Nut Tightening Torque	—	1 N·m max.	—																																		
	Electrical Specifications	Nominal Total Resistance	1 kΩ to 1 MΩ, 300 kΩ to 2 MΩ for taper B (Tolerance ±20 %)																																			
Taper		A, B, C, D, G																																				
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		<table><tr><td rowspan="3">Standard</td><td colspan="2">R < 50 kΩ</td><td colspan="2">50 Ω max.</td></tr><tr><td colspan="2">50 kΩ < R < 1 MΩ</td><td colspan="2">100 Ω max.</td></tr><tr><td colspan="2">1 MΩ < R < 2 MΩ</td><td colspan="2">200 Ω max.</td></tr><tr><td rowspan="5">Semi-standard</td><td>A, B, D, G T1 & T2</td><td>B, C, G T2 & T3</td><td>A, D T2 & T3</td><td>C T1 & T2</td></tr><tr><td colspan="2">R < 2 kΩ</td><td colspan="2">20 Ω max.</td></tr><tr><td colspan="2">2 kΩ < R < 50 kΩ</td><td colspan="2">25 Ω max.</td></tr><tr><td colspan="2">50 kΩ < R < 250 kΩ</td><td colspan="2">50 Ω max.</td></tr><tr><td colspan="2">R > 250 kΩ</td><td colspan="2">100 Ω max.</td></tr></table>			Standard	R < 50 kΩ		50 Ω max.		50 kΩ < R < 1 MΩ		100 Ω max.		1 MΩ < R < 2 MΩ		200 Ω max.		Semi-standard	A, B, D, G T1 & T2	B, C, G T2 & T3	A, D T2 & T3	C T1 & T2	R < 2 kΩ		20 Ω max.		2 kΩ < R < 50 kΩ		25 Ω max.		50 kΩ < R < 250 kΩ		50 Ω max.		R > 250 kΩ		100 Ω max.	
Standard		R < 50 kΩ		50 Ω max.																																		
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	R < 2 kΩ		20 Ω max.																																			
	2 kΩ < R < 50 kΩ		25 Ω max.																																			
	50 kΩ < R < 250 kΩ		50 Ω max.																																			
	R > 250 kΩ		100 Ω max.																																			
Insulation Resistance	50 MΩ min. at 250 Vdc																																					
Dielectric Withstand Voltage	250 Vac for 1 minute																																					
Noise Level	100 mV max. Apply 20 V (When Voltage Rating < 20 V, use the rated voltage.) Rotate shaft at 30 r/min.																																					
Endurance	Operating Life	10000 cycles min.																																				
Minimum Quantity/Packing Unit		EVUE/EVUF : 200 pcs. Polyethylene Bag (Bulk)																																				
Quantity/Carton		EVUE/EVUF : 2000 pcs.																																				



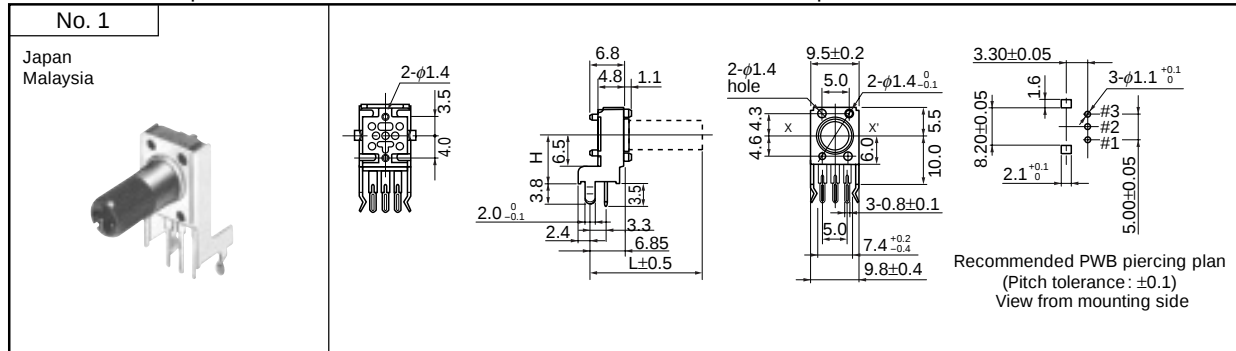
■ Dimensions in mm (not to scale)

● Single Type without Bushing

Horizontal, Snap-in

without midpoint detent: EVUE20, EVUE2A, EVUE21

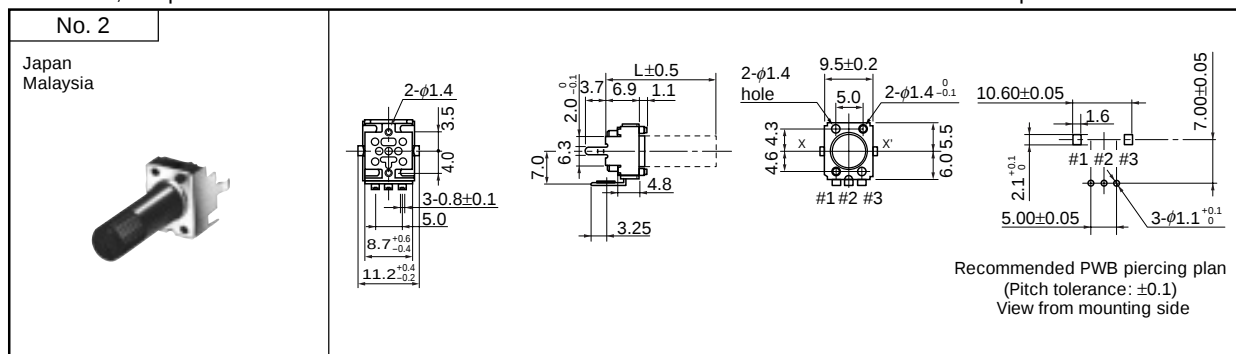
with midpoint detent: EVUE30, EVUE3A, EVUE31



without midpoint detent: EVUF2A

with midpoint detent: EVUF3A

Vertical, Snap-in

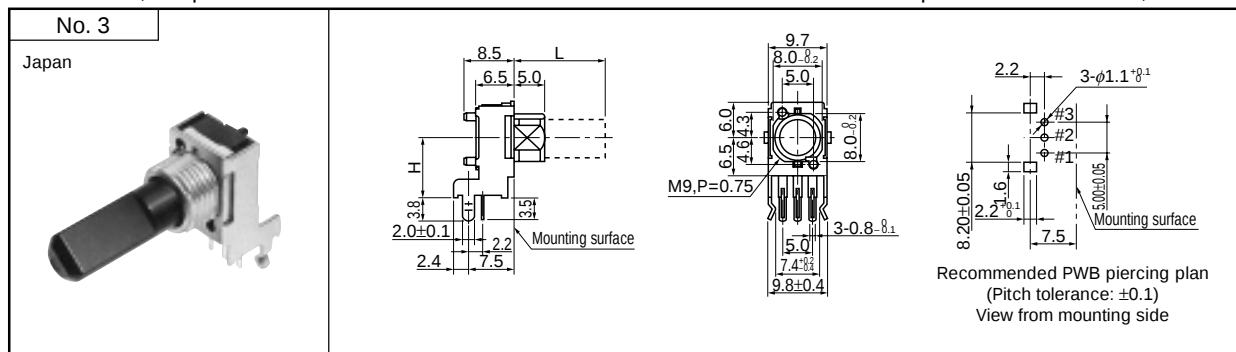


● Single Type with Bushing

Horizontal, Snap-in

without midpoint detent: EVUE25, EVUE2J

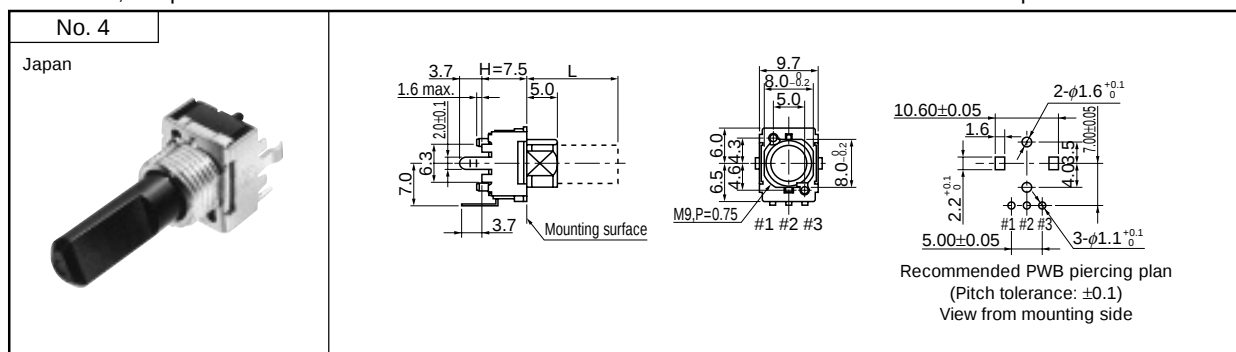
with midpoint detent: EVUE35, EVUE3J



without midpoint detent: EVUF2J

with midpoint detent: EVUF3J

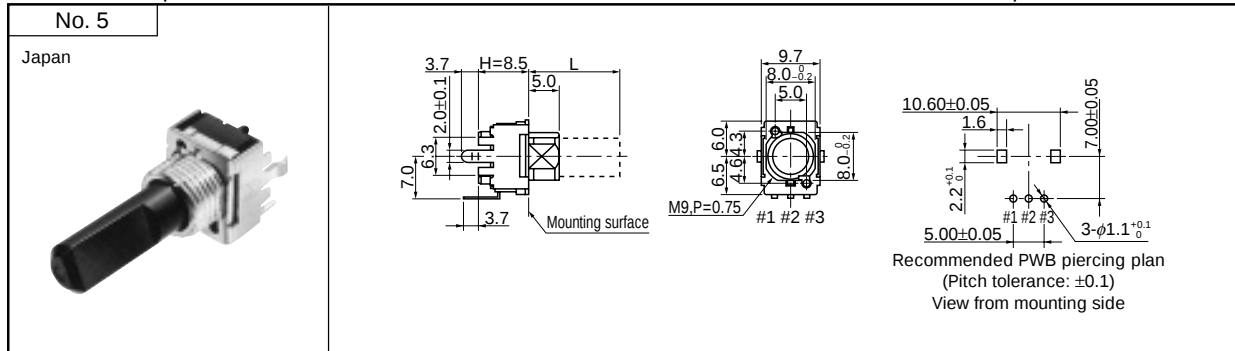
Vertical, Snap-in



Vertical, Snap-in

without midpoint detent: EVUF2M

with midpoint detent: EVUF3M

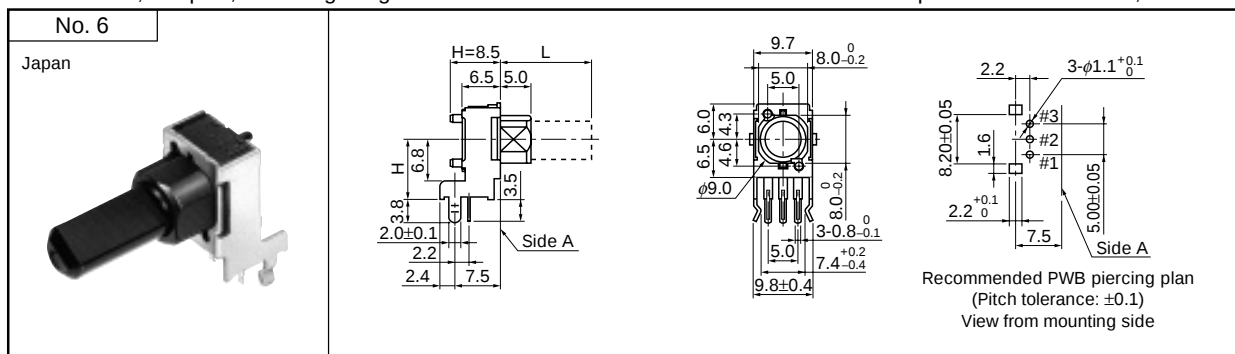


● Single Type with Sleeve

without midpoint detent: EVUE27, EVUE2K

Horizontal, Snap-in, Mounting Height H=10.0 mm

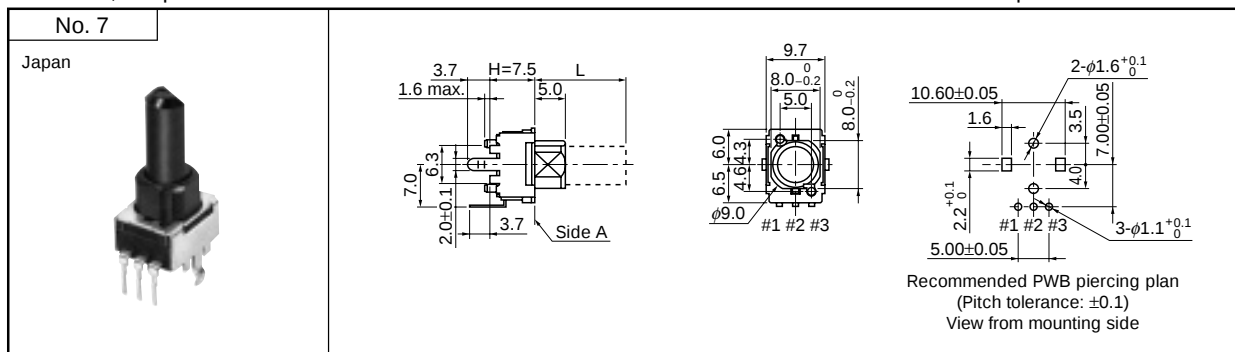
with midpoint detent: EVUE37, EVUE3K



Vertical, Snap-in

without midpoint detent: EVUF2K

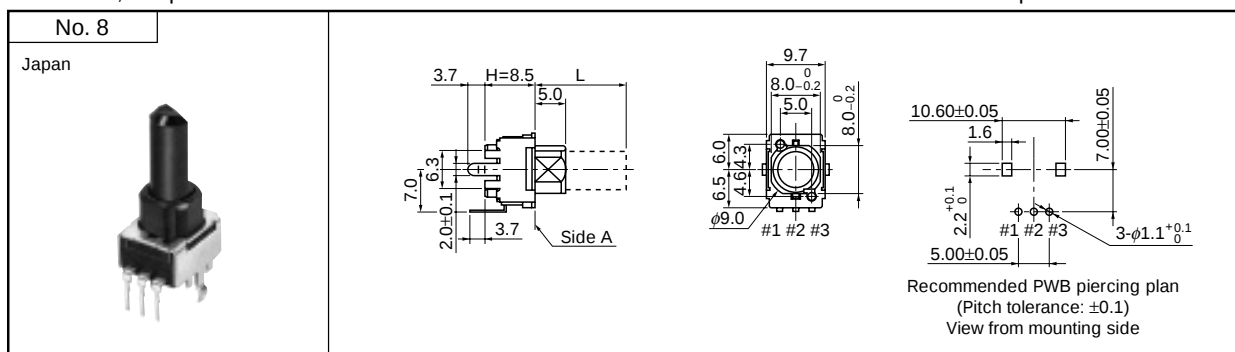
with midpoint detent: EVUF3K



Vertical, Snap-in

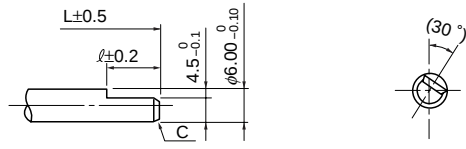
without midpoint detent: EVUF2L

with midpoint detent: EVUF3L

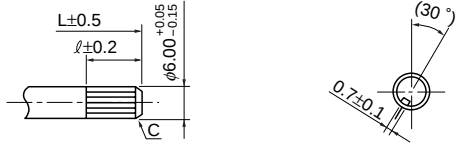


● Shaft Trims and Dimensions in mm for Type without Bushing (Drawings are at full CCW position.)

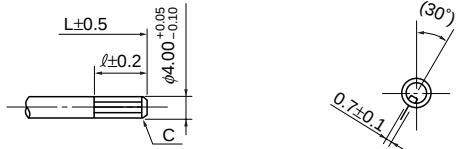
Type F (Flat)

Product No. 7-8-9 th	F15	F20	F25	F30	
L	15.0	20.0	25.0	30.0	
ℓ	6.0	7.0	12.0	12.0	

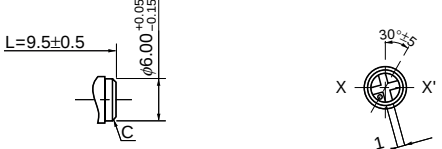
Type E (40 teeth serrations)

Product No. 7-8-9 th	E15	E17	E20	E25	E30	E35	
L	15.0	(17.0)	20.0	25.0	30.0	35.0	
ℓ	6.0	7.0	7.0	7.0	7.0	7.0	

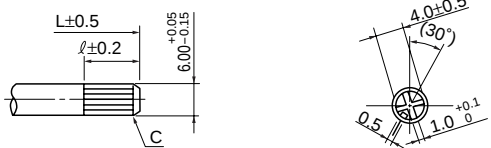
Type M (24 teeth serrations)

Product No. 7-8-9 th	M20	M25	M30	M35	
L	20.0	25.0	30.0	35.0	
ℓ	7.0	7.0	7.0	7.0	

Type S (with screw slot)

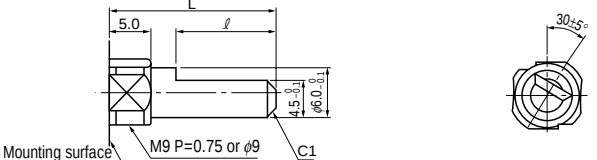
Product No. 7-8-9 th	S01	
L	9.5	
ℓ	—	

Type H (40 teeth serrations, with screw slot)

Product No. 7-8-9 th	H15	H20	H25	
L	15.0	20.0	25.0	
ℓ	6.0	7.0	7.0	

● Shaft Trims and Dimensions in mm for Types with Bushing or Sleeve (Drawings are at full CCW position.)

Type F (Flat)

Product No. 7-8-9 th	FK1	FK3	FK4	FK5	FL3	FK6	
L	12.5	15.0	17.5	20.0	21.5	22.5	
ℓ	7.0	7.0	12.0	12.0	12.0	12.0	

Note: When you have special requirements other than the above, consult our salesmen.

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