Compact Thumb-wheel Driving **Rotary Potentiometers**

Type: **EVLHFA**

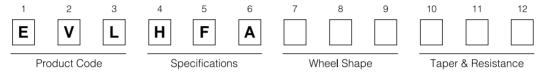
■ Features

- Dustproof molded structure
- Compact and high reliability
- Wave-soldering available
- Custom-designed thumb wheels available

■ Recommended Applications

- Radios, Headphone Cassette Tape Players, Micro-cassette Tape Recorders
- LCD screen TVs, VCRs
- Contrast control for Word Processors

■ Explanation of Part Numbers

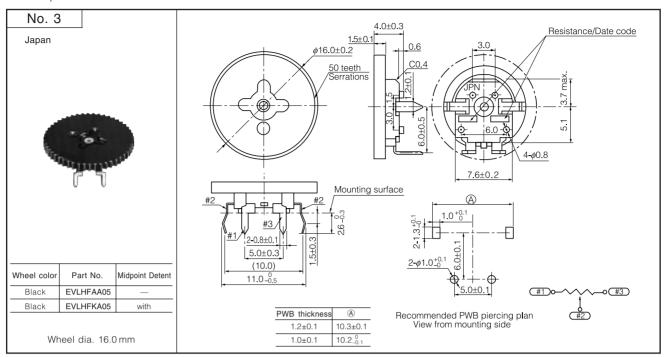


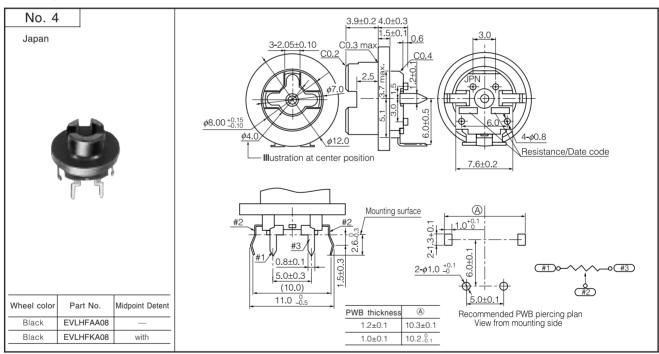
Japan

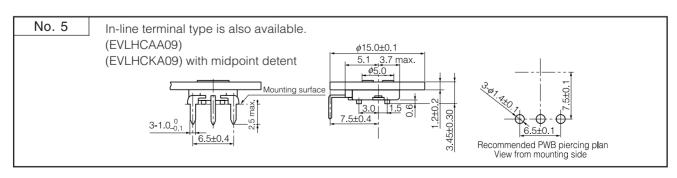
■ Dimensions in mm (not to scale)

• 7 mm Dia. Single

Pre-coupled wheel EVLHFA No. 1 Japan Dia. of a hollow 9 max. Resistance/Date code Illustration at center position 9.8 Part No. Mounting surface Wheel color Midpoint Detent #2 Black EVLHFAA01 EVLHFAA02 White Gray EVLHFAA03 $2-\phi 1.0^{+}$ EVLHFKA01 Black with PWB thickness (A) White EVLHFKA02 EVLHFKA03 with 12+01 10.3±0.1 Grav Recommended PWB piercing plan 1.0±0.1 10.2_0 1 View from mounting side Wheel dia. 12.8 mm No. 2 Helvetica Reqular Japan Relief Numbers $4-\phi 0.8$ Resistance/Date code Illustration at center position 45 Teeth Serrations (#1)c #2 Wheel color Part No. Midpoint Detent Black **EVI HEAA06** Black EVLHFKA06 with PWB thickness (A) Recommended PWB piecing plan View from mounting side 1.2±0.1 10.3±0.1 10.2_0 1.0+0.1Wheel dia. 13.0 mm







■ Major Specifications

Item		EVLHFA	
Total Rotation Angle		260 °±10 °	
Shaft Stopper Strength		60 mN·m min.	
Rotation Torque		0.5 mN·m to 6 mN·m	
Detent		Center detent available	
Detent Torque		0.5 mN·m to 6 mN·m over the measured torque	
Wheel Wobble		±0.3 mm max.	
Nominal Total Resistance		1 k Ω to 250 k Ω 1 k Ω to 500 k Ω for B	
Tolerance		±20 %	
Taper		A, B, C, D	
Power Rating	B Others	0.03 W 0.01 W	
Maximum Applicable Voltage		50 Vac/20 Vdc	
Noise Level		under 100 mV (RIC noise tester)	
Residual Resistance		See the table below	
Tracking		_	
Rotation Life		10000 cycles min.	
Soldering Heat		260 °C 3s max.	
Minimum Quantity/Packing Unit		100 pcs. (Vinyl Bag)	
Quantity/Carton		4000 pcs.	

■ Taper

	Measuring method	$\frac{\text{Voltage between T1 \& T2}}{\text{Voltage between T1 \& T3}} \times 100 \text{ (\%)} \text{At 50 \% of effective rotation}$	
EIAJ	Panasonic	EVLHFA	
15A	А	10 to 25	
1B	В	40 to 60	
15C	С	10 to 25*	
10A	D	6 to 15	

*Angle from terminal 3 side.

 $\left(\frac{\text{Voltage between T2 & T3}}{\text{Voltage between T1 & T3}} \times 100\right)$

■ Residual Resistance

EVLHFA				
	T1 & T2 (A, B, D) T2 & T3	T2 & T3 (A, D) T1 & T2		
	(B, C)	(C)		
R ≦ 50 kΩ	2 Ω	25 Ω		
$50 \text{ k}\Omega < \text{R} \le 250 \text{ k}\Omega$	25 Ω	50 Ω		
250 kΩ < R \leq 500 kΩ	100 Ω	100 Ω		

- R=Nominal total resistance value
 Residual resistance between T1 & T2, at full counterclockwise end.
 Residual resistance between T2 & T3, at full clockwise end.