

Compact Thumb-wheel Driving Rotary Potentiometers

Type: **EVLH**



■ Features

- Dustproof molded structure
- 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 LCDs

■ Explanation of Part Numbers

1	2	3	4	5	6	7	8	9	10	11	12
E	V	L	H								
Product Code			Specifications			Wheel Shape			Taper & Resistance		

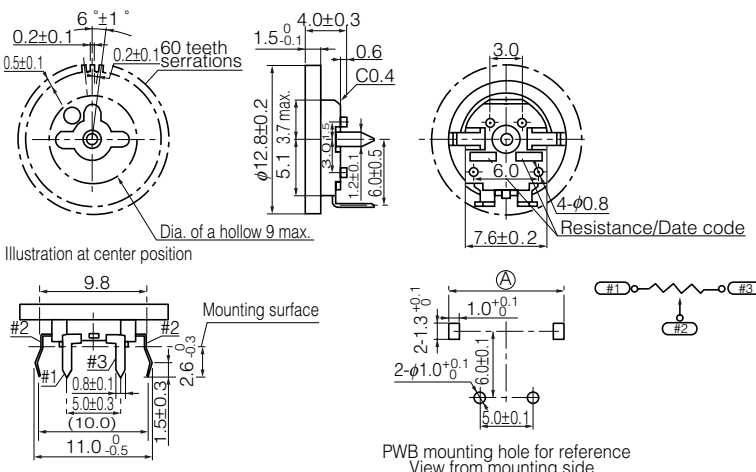
■ Specifications

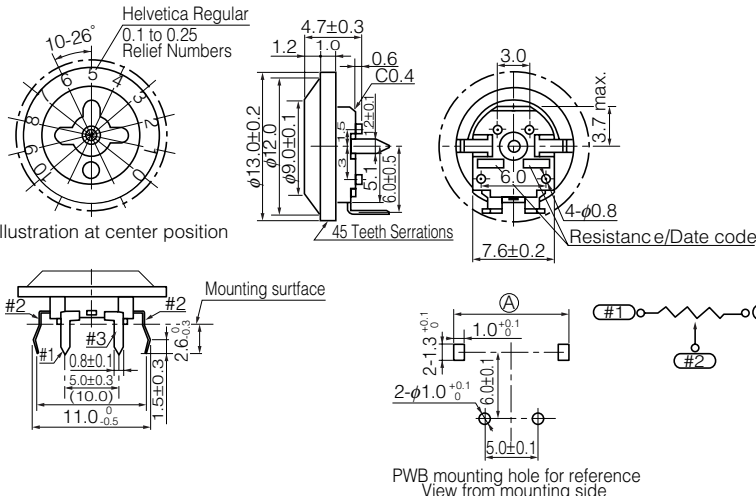
Mechanical	Rotation Angle	260 °																				
	Rotation Torque	0.5 mN·m to 6 mN·m																				
	Shaft Stopper Strength	60 mN·m min.																				
	Detent	Center detent available																				
Electrical	Nominal Total Resistance	1 kΩ to 250 kΩ (Tolerance ±20 %) 1 kΩ to 500 kΩ (B) (Tolerance ±20 %)																				
	Taper	<table><tr><td colspan="2"> Measuring method </td><td>$\frac{\text{Voltage between T1 \& T2}}{\text{Voltage between T1 \& T3}} \times 100(\%)$ At 50 % of effective rotation</td></tr><tr><td>EIAJ</td><td>Panasonic</td><td>EVLH</td></tr><tr><td>15A</td><td>A</td><td>10 to 25</td></tr><tr><td>1B</td><td>B</td><td>40 to 60</td></tr><tr><td>15C</td><td>C</td><td>10 to 25*</td></tr><tr><td>10A</td><td>D</td><td>6 to 15</td></tr></table>			Measuring method		$\frac{\text{Voltage between T1 \& T2}}{\text{Voltage between T1 \& T3}} \times 100(\%)$ At 50 % of effective rotation	EIAJ	Panasonic	EVLH	15A	A	10 to 25	1B	B	40 to 60	15C	C	10 to 25*	10A	D	6 to 15
		Measuring method		$\frac{\text{Voltage between T1 \& T2}}{\text{Voltage between T1 \& T3}} \times 100(\%)$ At 50 % of effective rotation																		
		EIAJ	Panasonic	EVLH																		
		15A	A	10 to 25																		
		1B	B	40 to 60																		
		15C	C	10 to 25*																		
10A	D	6 to 15																				
*Angle from terminal 3 side. $\left(\frac{\text{Voltage between T2 \& T3}}{\text{Voltage between T1 \& T3}} \times 100 (\%) \right)$																						
Power Rating	0.03 W (Taper B), 0.01 W (Others)																					
Residual Resistance	<table><tr><td> Taper & Terminal R=Nominal Total Resistance </td><td>A·B·D : T1 & T2 B·C : T2 & T3</td><td>A·D : T2 & T3 C : T1 & T2</td></tr><tr><td>R ≤ 50 kΩ</td><td>2 Ω</td><td>25 Ω</td></tr><tr><td>50 kΩ < R ≤ 250 kΩ</td><td>25 Ω</td><td>50 Ω</td></tr><tr><td>250 kΩ < R ≤500 kΩ</td><td>100 Ω</td><td>100 Ω</td></tr></table>			Taper & Terminal R=Nominal Total Resistance	A·B·D : T1 & T2 B·C : T2 & T3	A·D : T2 & T3 C : T1 & T2	R ≤ 50 kΩ	2 Ω	25 Ω	50 kΩ < R ≤ 250 kΩ	25 Ω	50 Ω	250 kΩ < R ≤500 kΩ	100 Ω	100 Ω							
	Taper & Terminal R=Nominal Total Resistance	A·B·D : T1 & T2 B·C : T2 & T3	A·D : T2 & T3 C : T1 & T2																			
	R ≤ 50 kΩ	2 Ω	25 Ω																			
	50 kΩ < R ≤ 250 kΩ	25 Ω	50 Ω																			
250 kΩ < R ≤500 kΩ	100 Ω	100 Ω																				
Noise Level	100 mV max.																					
Endurance	Operating Life	10000 cycles min.																				
Minimum Quantity/Packing Unit		100 pcs. Polyethylene Bag (Bulk)																				
Quantity/Cartron		4000 pcs.																				

■ Dimensions in mm (not to scale)

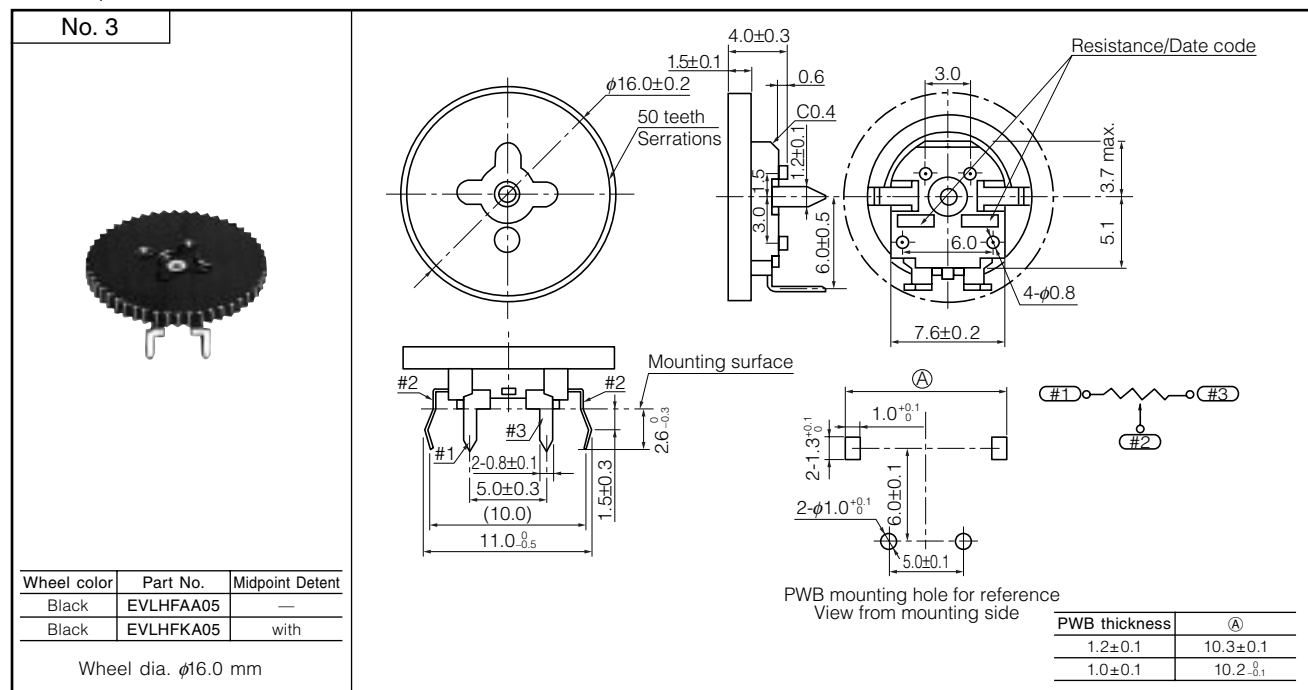
● 7 mm Dia. Single

Pre-coupled wheel EVLH

No. 1								
								
 Illustration at center position Mounting surface PWB mounting hole for reference View from mounting side								
Wheel color	Part No.	Midpoint Detent						
Black	EVLHFAA01	—						
White	EVLHFAA02	—						
Gray	EVLHFAA03	—						
Black	EVLHFKA01	with						
White	EVLHFKA02	with						
Gray	EVLHFKA03	with						
Wheel dia. $\phi 12.8$ mm								
<table><tr><th>PWB thickness</th><th>(A)</th></tr><tr><td>1.2±0.1</td><td>10.3±0.1</td></tr><tr><td>1.0±0.1</td><td>10.2$^{0}_{-0.1}$</td></tr></table>			PWB thickness	(A)	1.2±0.1	10.3±0.1	1.0±0.1	10.2 $^{0}_{-0.1}$
PWB thickness	(A)							
1.2±0.1	10.3±0.1							
1.0±0.1	10.2 $^{0}_{-0.1}$							

No. 2								
								
 Illustration at center position Mounting surface PWB mounting hole for reference View from mounting side								
Wheel color	Part No.	Midpoint Detent						
Black	EVLHFAA06	—						
Black	EVLHFKA06	with						
Wheel dia. $\phi 13.0$ mm								
<table><tr><th>PWB thickness</th><th>(A)</th></tr><tr><td>1.2±0.1</td><td>10.3±0.1</td></tr><tr><td>1.0±0.1</td><td>10.2$^{0}_{-0.1}$</td></tr></table>			PWB thickness	(A)	1.2±0.1	10.3±0.1	1.0±0.1	10.2 $^{0}_{-0.1}$
PWB thickness	(A)							
1.2±0.1	10.3±0.1							
1.0±0.1	10.2 $^{0}_{-0.1}$							

Pre-coupled wheel EVLH



Post-coupled wheel EVLH

