

### Compact Thumb-wheel Driving Rotary Potentiometers

Type: **EVLH**



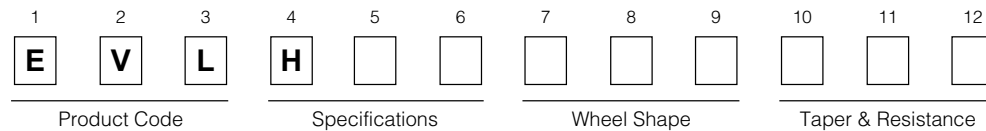
#### ■ Features

- 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



#### ■ Specifications


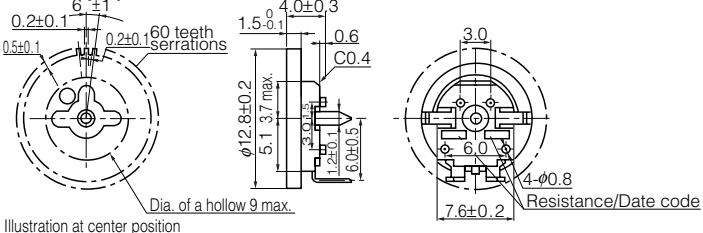
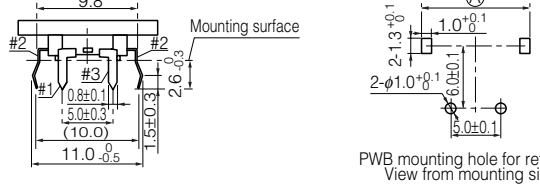
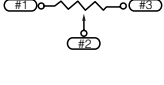

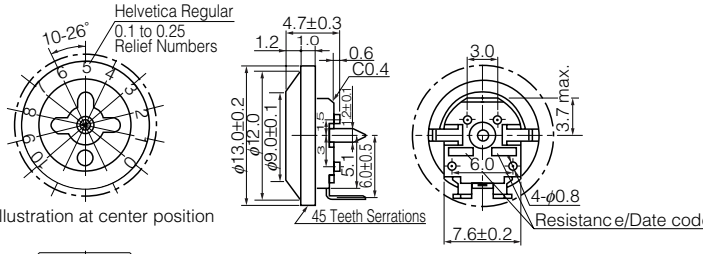
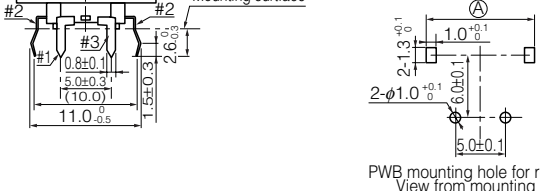
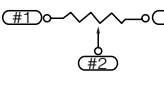
Mechanical	Rotation Angle	260 °																		
	Rotation Torque	0.5 mN·m to 6 mN·m																		
	Shaft Stopper Strength	60 mN·m min.																		
	Detent	Center detent available																		
Electrical	Nominal Total Resistance	1 kΩ to 250 kΩ (Tolerance ±20 %) 1 kΩ to 500 kΩ (B) (Tolerance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

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■ Dimensions in mm (not to scale)


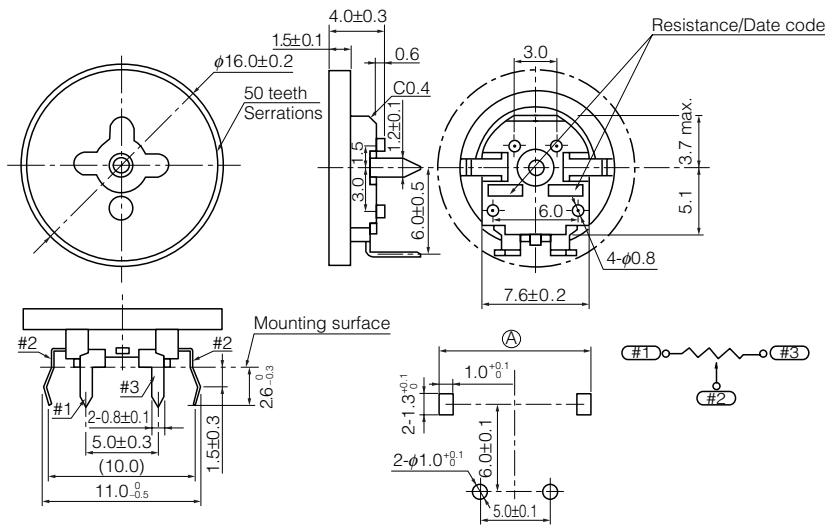
- 7 mm Dia. Single

Pre-coupled wheel ..... EVLH

No. 1																													
																													
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Pre-coupled wheel..... EVLH

**No. 3**


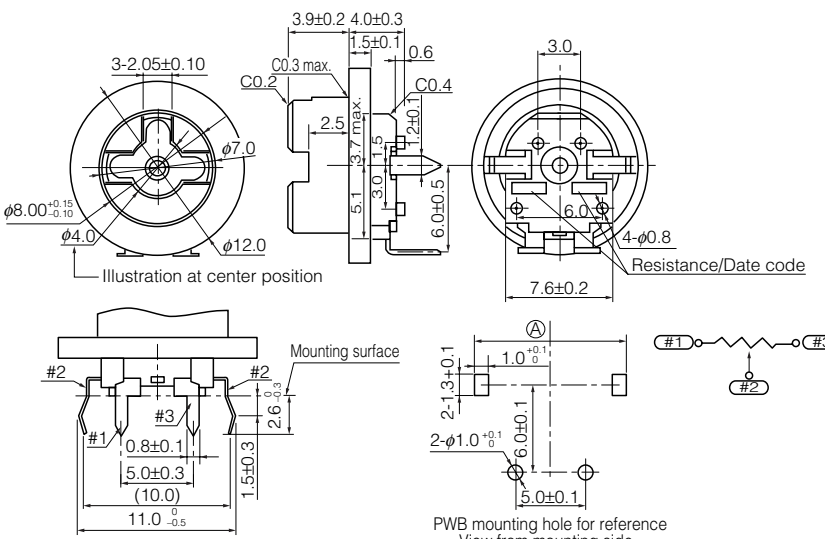
Wheel color	Part No.	Midpoint Detent
Black	EVLHFAA05	—
Black	EVLHFKA05	with

Wheel dia.  $\phi 16.0$  mm

PWB thickness	(A)
1.2±0.1	10.3±0.1
1.0±0.1	10.2 $_{-0.1}^0$

Post-coupled wheel..... EVLH

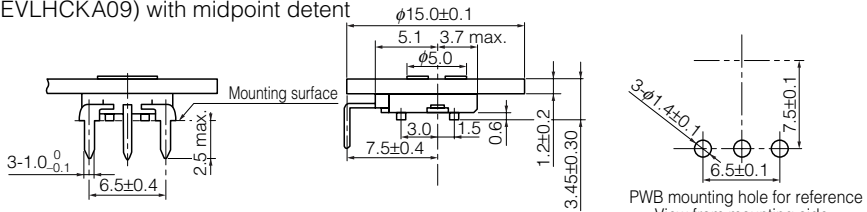
**No. 4**

Wheel color	Part No.	Midpoint Detent
Black	EVLHFAA08	—
Black	EVLHFKA08	with

PWB thickness	(A)
1.2±0.1	10.3±0.1
1.0±0.1	10.2 $_{-0.1}^0$

**No. 5** In-line terminal type is also available.  
(EVLHCAA09)  
(EVLHCKA09) with midpoint detent



PWB mounting hole for reference  
View from mounting side

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