# 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 %)<br>1 kΩ to 500 kΩ (B) (Tolerance ±20 %) |
| | Taper | Measuring method: Voltage between T1 & T2 / Voltage between T1 & T3 ×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. ( Voltage between T2 & T3 / Voltage between T1 & T3 ×100 (%) )

| | |
|---|---|
| | Power Rating: 0.03 W (Taper B), 0.01 W (Others) |

Residual Resistance (Taper & Terminal / R=Nominal Total Resistance)

| R=Nominal Total Resistance | A·B·D : T1 & T2<br>B·C : T2 & T3 | A·D : T2 & T3<br>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/Carton | | 4000 pcs. |

■ Dimensions in mm (not to scale)

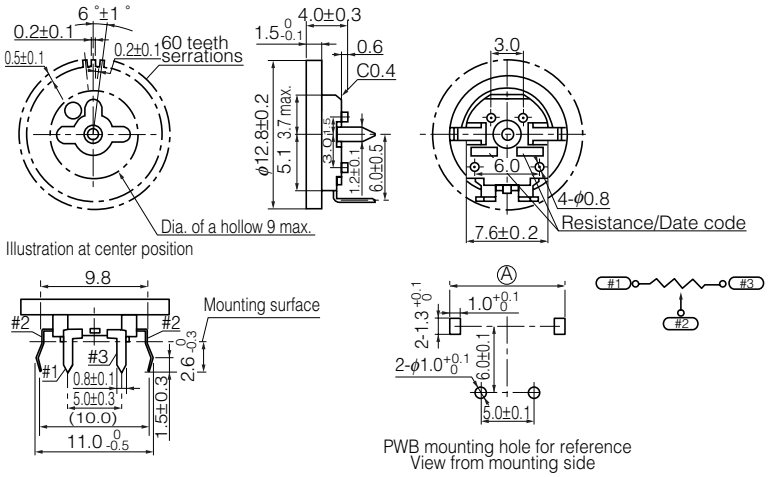
● 7 mm Dia. Single

Pre-coupled wheel ····· EVLH

## No. 1

| 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

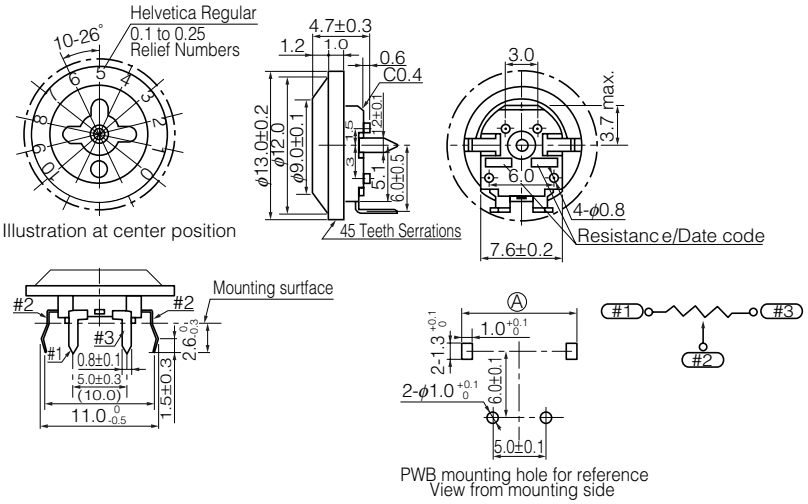



| PWB thickness | Ⓐ |
|---|---|
| 1.2±0.1 | 10.3±0.1 |
| 1.0±0.1 | 10.2 0 -0.1 |

## No. 2

| Wheel color | Part No. | Midpoint Detent |
|---|---|---|
| Black | EVLHFAA06 | — |
| Black | EVLHFKA06 | with |

Wheel dia. $\phi$13.0 mm



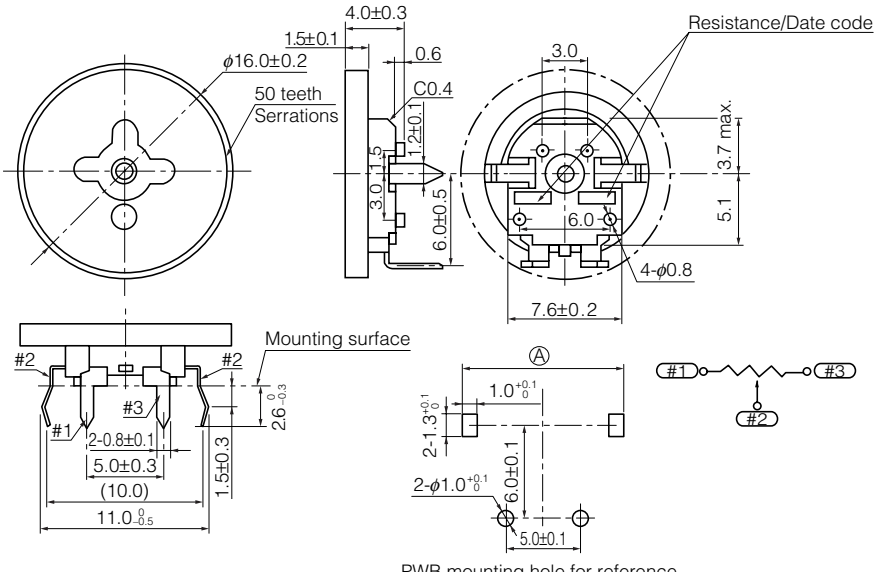

| PWB thickness | Ⓐ |
|---|---|
| 1.2±0.1 | 10.3±0.1 |
| 1.0±0.1 | 10.2 0 -0.1 |

Pre-coupled wheel ..... EVLH

## No. 3

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

Wheel dia. $\phi$16.0 mm



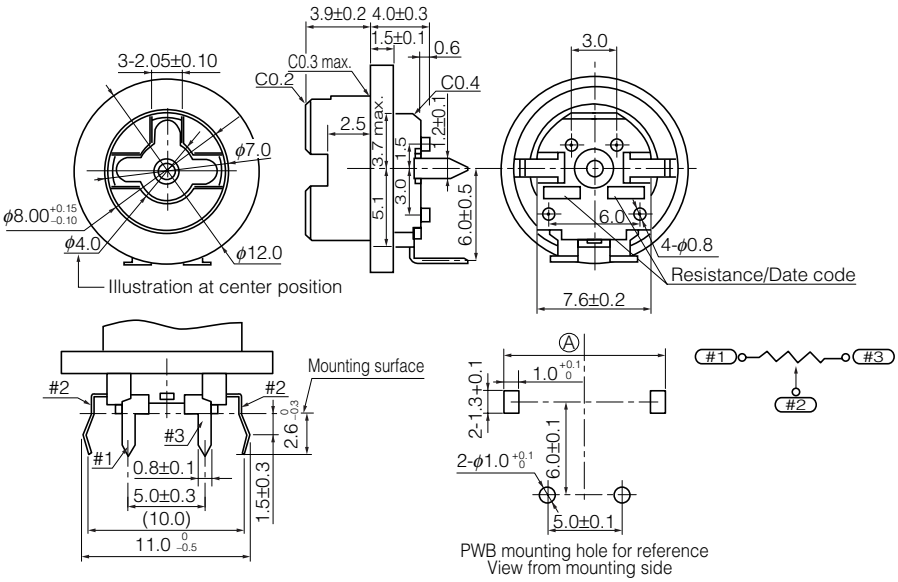

PWB mounting hole for reference
View from mounting side

| PWB thickness | Ⓐ |
|---|---|
| 1.2±0.1 | 10.3±0.1 |
| 1.0±0.1 | 10.2 0 -0.1 |

Post-coupled wheel ..... EVLH

## No. 4

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

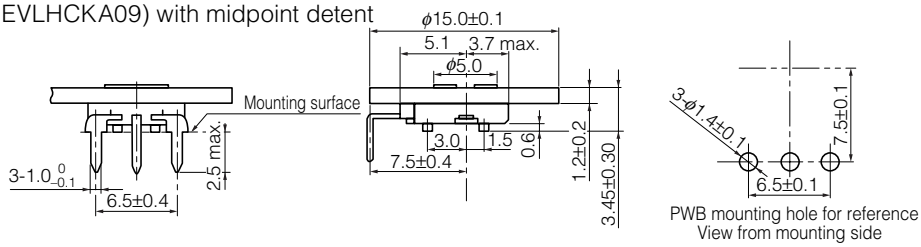



PWB mounting hole for reference
View from mounting side

| PWB thickness | Ⓐ |
|---|---|
| 1.2±0.1 | 10.3±0.1 |
| 1.0±0.1 | 10.2 0 -0.1 |

## No. 5

In-line terminal type is also available.
(EVLHCAA09)
(EVLHCKA09) with midpoint detent




PWB mounting hole for reference
View from mounting side