



**THE DATASHEET OF  
PV37X503C01B00**



# Trimmer Potentiometers



## Lead Sealed Type Multiturn PV37 Series

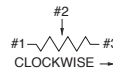
### PV37 Series

#### Features

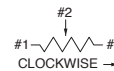
1. Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. Standoffs allow thorough PC board washing
5. RoHS compliant\*
6. For trimmer applications/processing guidelines, [click here](#)



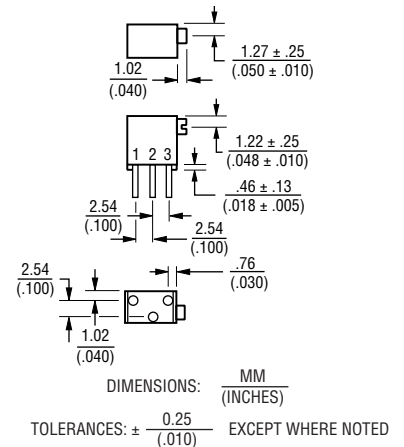
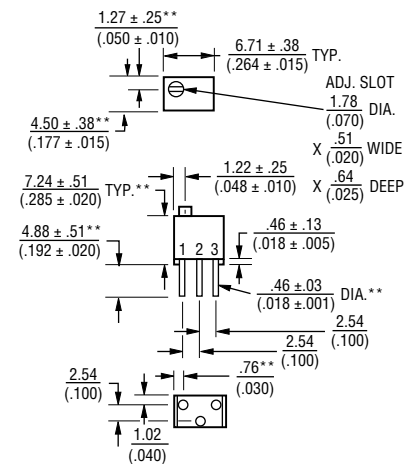
PV37W



PV37X



#### COMMON DIMENSIONS\*\*



#### Top Adjustment

| Part Number    | Power Rating (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value | TCR (ppm/°C) |
|----------------|------------------|--|------------------------|--------------|
| PV37W100C01B00 | 0.25 (85 °C)     | 12   | 10 ohm ±10 %           | ±150         |
| PV37W101C01B00 | 0.25 (85 °C)     | 12   | 100 ohm ±10 %          | ±150         |
| PV37W201C01B00 | 0.25 (85 °C)     | 12   | 200 ohm ±10 %          | ±150         |
| PV37W501C01B00 | 0.25 (85 °C)     | 12   | 500 ohm ±10 %          | ±150         |
| PV37W102C01B00 | 0.25 (85 °C)     | 12   | 1k ohm ±10 %           | ±150         |
| PV37W202C01B00 | 0.25 (85 °C)     | 12   | 2k ohm ±10 %           | ±150         |
| PV37W502C01B00 | 0.25 (85 °C)     | 12   | 5k ohm ±10 %           | ±150         |
| PV37W103C01B00 | 0.25 (85 °C)     | 12   | 10k ohm ±10 %          | ±150         |
| PV37W203C01B00 | 0.25 (85 °C)     | 12   | 20k ohm ±10 %          | ±150         |
| PV37W253C01B00 | 0.25 (85 °C)     | 12   | 25k ohm ±10 %          | ±150         |
| PV37W503C01B00 | 0.25 (85 °C)     | 12   | 50k ohm ±10 %          | ±150         |
| PV37W104C01B00 | 0.25 (85 °C)     | 12   | 100k ohm ±10 %         | ±150         |
| PV37W204C01B00 | 0.25 (85 °C)     | 12   | 200k ohm ±10 %         | ±150         |
| PV37W254C01B00 | 0.25 (85 °C)     | 12   | 250k ohm ±10 %         | ±150         |
| PV37W504C01B00 | 0.25 (85 °C)     | 12   | 500k ohm ±10 %         | ±150         |
| PV37W105C01B00 | 0.25 (85 °C)     | 12   | 1M ohm ±10 %           | ±150         |

Operating Temperature Range: -55 to +125 °C  
Soldering Method: Wave (Single and Dual)



**WARNING Cancer and Reproductive Harm**  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at [www.bourns.com/docs/legal/disclaimer.pdf](http://www.bourns.com/docs/legal/disclaimer.pdf).

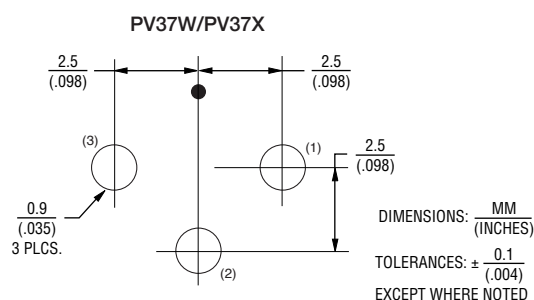
## Side Adjustment

| Part Number    | Power Rating (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value | TCR (ppm/°C) |
|----------------|------------------|--|------------------------|--------------|
| PV37X100C01B00 | 0.25 (85 °C)     | 12   | 10 ohm ±10 %           | ±150         |
| PV37X101C01B00 | 0.25 (85 °C)     | 12   | 100 ohm ±10 %          | ±150         |
| PV37X201C01B00 | 0.25 (85 °C)     | 12   | 200 ohm ±10 %          | ±150         |
| PV37X501C01B00 | 0.25 (85 °C)     | 12   | 500 ohm ±10 %          | ±150         |
| PV37X102C01B00 | 0.25 (85 °C)     | 12   | 1k ohm ±10 %           | ±150         |
| PV37X202C01B00 | 0.25 (85 °C)     | 12   | 2k ohm ±10 %           | ±150         |
| PV37X502C01B00 | 0.25 (85 °C)     | 12   | 5k ohm ±10 %           | ±150         |
| PV37X103C01B00 | 0.25 (85 °C)     | 12   | 10k ohm ±10 %          | ±150         |
| PV37X203C01B00 | 0.25 (85 °C)     | 12   | 20k ohm ±10 %          | ±150         |
| PV37X253C01B00 | 0.25 (85 °C)     | 12   | 25k ohm ±10 %          | ±150         |
| PV37X503C01B00 | 0.25 (85 °C)     | 12   | 50k ohm ±10 %          | ±150         |
| PV37X104C01B00 | 0.25 (85 °C)     | 12   | 100k ohm ±10 %         | ±150         |
| PV37X204C01B00 | 0.25 (85 °C)     | 12   | 200k ohm ±10 %         | ±150         |
| PV37X254C01B00 | 0.25 (85 °C)     | 12   | 250k ohm ±10 %         | ±150         |
| PV37X504C01B00 | 0.25 (85 °C)     | 12   | 500k ohm ±10 %         | ±150         |
| PV37X105C01B00 | 0.25 (85 °C)     | 12   | 1M ohm ±10 %           | ±150         |

Operating Temperature Range: -55 to +125 °C

Soldering Method: Wave (Single and Dual)

### Standard Mounting Holes



### Characteristics

|                           |   |
|---------------------------|---|
| Temperature Cycle         | $\Delta TR$ : ±1%<br>$\Delta V.S.S.$ : ±1%                          |
| Humidity                  | $\Delta TR$ : ±2%<br>IR : 100M ohm min.                             |
| Vibration (20G)           | $\Delta TR$ : ±1%<br>$\Delta V.S.S.$ : ±1%                          |
| Shock (100G)              | $\Delta TR$ : ±1%<br>$\Delta V.S.S.$ : ±1%                          |
| Temperature Load Life     | $\Delta TR$ : ±2%<br>$\Delta V.S.S.$ : ±1%                          |
| Low Temperature Exposure  | $\Delta TR$ : ±1%<br>$\Delta V.S.S.$ : ±1%                          |
| High Temperature Exposure | $\Delta TR$ : ±2%<br>$\Delta V.S.S.$ : ±1%                          |
| Rotational Life           | $\Delta TR$ : RV 100 ohm ... ±3%<br>RG 100 ohm ... ±2% (200 cycles) |

$\Delta TR$  : Total Resistance Change  
 $\Delta V.S.S.$ : Voltage Setting Stability  
 IR : Insulation Resistance  
 R : Standard Total Resistance

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### Part Numbering

**PV 37 W 103 C01 B00**

Product ID \_\_\_\_\_  
 PV = Trimming Potentiometer

Series \_\_\_\_\_  
 37 = Lead Sealed 6 mm Square 12-Turns

Adjustment Direction/Lead Type \_\_\_\_\_  
 W = Top, Triangle  
 X = Side, Triangle

Total Resistance \_\_\_\_\_  
 Expressed by three figures.  
 The first and second figures are significant digits;  
 the third figure expresses the number of zeros that follow.

| Resistance (Ohms) | Resistance Code |
|-------------------|-----------------|
| 10                | 100             |
| 100               | 101             |
| 200               | 201             |
| 500               | 501             |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>5,000</b>      | <b>502</b>      |
| <b>10,000</b>     | <b>103</b>      |
| <b>20,000</b>     | <b>203</b>      |
| 25,000            | 253             |
| 50,000            | 503             |
| 100,000           | 104             |
| 200,000           | 204             |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |

Popular distribution resistance values listed in boldface. Special resistances available.

Individual Specification \_\_\_\_\_  
 C01 = Standard Type

Packaging \_\_\_\_\_  
 B00 = Tube (50 pcs. per tube)

### Typical Part Marking

#### 3-Digit Date Code and Manufacturing Code

- First digit indicates year of manufacture;
- Last two digits indicate week of manufacture;
- 4th digit is suffix for manufacturing location:  
C = Costa Rica

Example:

604C = Manufactured in 2016, week 4, Costa Rica

#### Resistance Code

- Resistance code marking as shown in the *Part Numbering Resistance Table*.

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