

# Trimmer Potentiometers

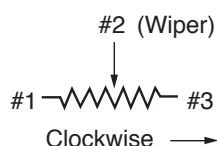
**BOURNS®**

## Lead Sealed Type Multiturn PV36 Series

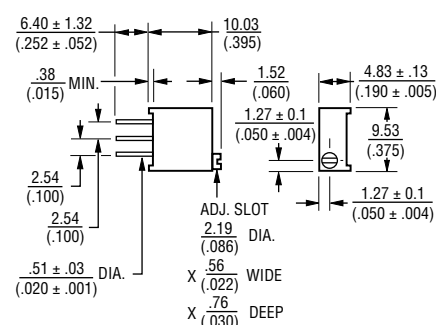
### PV36 Series

#### ■ Features

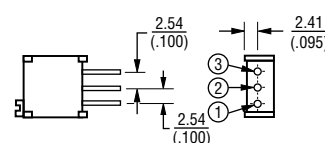
1. Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. Standoffs allow thorough PC board washing
5. Chevron seal design
6. RoHS compliant\*
7. For trimmer applications/processing guidelines,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



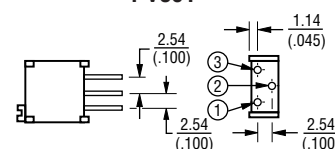
#### COMMON DIMENSIONS



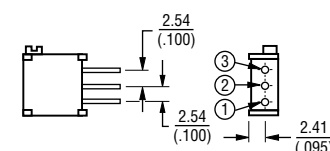
#### PV36W



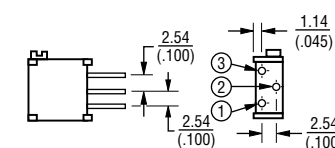
#### PV36Y



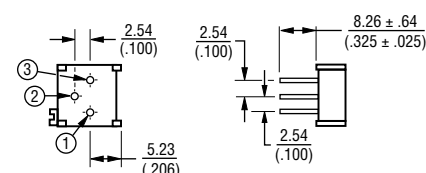
#### PV36X



#### PV36Z



#### PV36P



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

TOLERANCES:  $\pm \frac{0.25}{(.010)}$  EXCEPT WHERE NOTED

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

\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex.  
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## Top Adjustment

| Part Number    | Power Rating<br>(W) | Number of Turns<br>(Effective Rotation Angle) | Total Resistance Value | TCR<br>(ppm/°C) |
|----------------|---------------------|-----------------------------------------------|------------------------|-----------------|
| PV36W100C01B00 | 0.5 (70 °C)         | 25                                            | 10 ohm ±10 %           | ±150            |
| PV36W200C01B00 | 0.5 (70 °C)         | 25                                            | 20 ohm ±10 %           | ±150            |
| PV36W500C01B00 | 0.5 (70 °C)         | 25                                            | 50 ohm ±10 %           | ±150            |
| PV36W101C01B00 | 0.5 (70 °C)         | 25                                            | 100 ohm ±10 %          | ±150            |
| PV36W201C01B00 | 0.5 (70 °C)         | 25                                            | 200 ohm ±10 %          | ±100            |
| PV36W501C01B00 | 0.5 (70 °C)         | 25                                            | 500 ohm ±10 %          | ±100            |
| PV36W102C01B00 | 0.5 (70 °C)         | 25                                            | 1k ohm ±10 %           | ±100            |
| PV36W202C01B00 | 0.5 (70 °C)         | 25                                            | 2k ohm ±10 %           | ±100            |
| PV36W502C01B00 | 0.5 (70 °C)         | 25                                            | 5k ohm ±10 %           | ±100            |
| PV36W103C01B00 | 0.5 (70 °C)         | 25                                            | 10k ohm ±10 %          | ±100            |
| PV36W203C01B00 | 0.5 (70 °C)         | 25                                            | 20k ohm ±10 %          | ±100            |
| PV36W253C01B00 | 0.5 (70 °C)         | 25                                            | 25k ohm ±10 %          | ±100            |
| PV36W503C01B00 | 0.5 (70 °C)         | 25                                            | 50k ohm ±10 %          | ±100            |
| PV36W104C01B00 | 0.5 (70 °C)         | 25                                            | 100k ohm ±10 %         | ±100            |
| PV36W204C01B00 | 0.5 (70 °C)         | 25                                            | 200k ohm ±10 %         | ±100            |
| PV36W254C01B00 | 0.5 (70 °C)         | 25                                            | 250k ohm ±10 %         | ±100            |
| PV36W504C01B00 | 0.5 (70 °C)         | 25                                            | 500k ohm ±10 %         | ±100            |
| PV36W105C01B00 | 0.5 (70 °C)         | 25                                            | 1M ohm ±10 %           | ±100            |
| PV36W205C01B00 | 0.5 (70 °C)         | 25                                            | 2M ohm ±10 %           | ±100            |

|                |             |    |                |      |
|----------------|-------------|----|----------------|------|
| PV36Y100C01B00 | 0.5 (70 °C) | 25 | 10 ohm ±10 %   | ±150 |
| PV36Y200C01B00 | 0.5 (70 °C) | 25 | 20 ohm ±10 %   | ±150 |
| PV36Y500C01B00 | 0.5 (70 °C) | 25 | 50 ohm ±10 %   | ±150 |
| PV36Y101C01B00 | 0.5 (70 °C) | 25 | 100 ohm ±10 %  | ±150 |
| PV36Y201C01B00 | 0.5 (70 °C) | 25 | 200 ohm ±10 %  | ±100 |
| PV36Y501C01B00 | 0.5 (70 °C) | 25 | 500 ohm ±10 %  | ±100 |
| PV36Y102C01B00 | 0.5 (70 °C) | 25 | 1k ohm ±10 %   | ±100 |
| PV36Y202C01B00 | 0.5 (70 °C) | 25 | 2k ohm ±10 %   | ±100 |
| PV36Y502C01B00 | 0.5 (70 °C) | 25 | 5k ohm ±10 %   | ±100 |
| PV36Y103C01B00 | 0.5 (70 °C) | 25 | 10k ohm ±10 %  | ±100 |
| PV36Y203C01B00 | 0.5 (70 °C) | 25 | 20k ohm ±10 %  | ±100 |
| PV36Y253C01B00 | 0.5 (70 °C) | 25 | 25k ohm ±10 %  | ±100 |
| PV36Y503C01B00 | 0.5 (70 °C) | 25 | 50k ohm ±10 %  | ±100 |
| PV36Y104C01B00 | 0.5 (70 °C) | 25 | 100k ohm ±10 % | ±100 |
| PV36Y204C01B00 | 0.5 (70 °C) | 25 | 200k ohm ±10 % | ±100 |
| PV36Y254C01B00 | 0.5 (70 °C) | 25 | 250k ohm ±10 % | ±100 |
| PV36Y504C01B00 | 0.5 (70 °C) | 25 | 500k ohm ±10 % | ±100 |
| PV36Y105C01B00 | 0.5 (70 °C) | 25 | 1M ohm ±10 %   | ±100 |
| PV36Y205C01B00 | 0.5 (70 °C) | 25 | 2M ohm ±10 %   | ±100 |

Operating Temperature Range: -55 to +125 °C

Soldering Method: Wave (Single and Dual)

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## Side Adjustment

| Part Number    | Power Rating<br>(W) | Number of Turns<br>(Effective Rotation Angle) | Total Resistance Value | TCR<br>(ppm/°C) |
|----------------|---------------------|-----------------------------------------------|------------------------|-----------------|
| PV36X100C01B00 | 0.5 (70 °C)         | 25                                            | 10 ohm ±10 %           | ±150            |
| PV36X200C01B00 | 0.5 (70 °C)         | 25                                            | 20 ohm ±10 %           | ±150            |
| PV36X500C01B00 | 0.5 (70 °C)         | 25                                            | 50 ohm ±10 %           | ±150            |
| PV36X101C01B00 | 0.5 (70 °C)         | 25                                            | 100 ohm ±10 %          | ±150            |
| PV36X201C01B00 | 0.5 (70 °C)         | 25                                            | 200 ohm ±10 %          | ±100            |
| PV36X501C01B00 | 0.5 (70 °C)         | 25                                            | 500 ohm ±10 %          | ±100            |
| PV36X102C01B00 | 0.5 (70 °C)         | 25                                            | 1k ohm ±10 %           | ±100            |
| PV36X202C01B00 | 0.5 (70 °C)         | 25                                            | 2k ohm ±10 %           | ±100            |
| PV36X502C01B00 | 0.5 (70 °C)         | 25                                            | 5k ohm ±10 %           | ±100            |
| PV36X103C01B00 | 0.5 (70 °C)         | 25                                            | 10k ohm ±10 %          | ±100            |
| PV36X203C01B00 | 0.5 (70 °C)         | 25                                            | 20k ohm ±10 %          | ±100            |
| PV36X253C01B00 | 0.5 (70 °C)         | 25                                            | 25k ohm ±10 %          | ±100            |
| PV36X503C01B00 | 0.5 (70 °C)         | 25                                            | 50k ohm ±10 %          | ±100            |
| PV36X104C01B00 | 0.5 (70 °C)         | 25                                            | 100k ohm ±10 %         | ±100            |
| PV36X204C01B00 | 0.5 (70 °C)         | 25                                            | 200k ohm ±10 %         | ±100            |
| PV36X254C01B00 | 0.5 (70 °C)         | 25                                            | 250k ohm ±10 %         | ±100            |
| PV36X504C01B00 | 0.5 (70 °C)         | 25                                            | 500k ohm ±10 %         | ±100            |
| PV36X105C01B00 | 0.5 (70 °C)         | 25                                            | 1M ohm ±10 %           | ±100            |
| PV36X205C01B00 | 0.5 (70 °C)         | 25                                            | 2M ohm ±10 %           | ±100            |

|                |             |    |                |      |
|----------------|-------------|----|----------------|------|
| PV36P100C01B00 | 0.5 (70 °C) | 25 | 10 ohm ±10 %   | ±150 |
| PV36P200C01B00 | 0.5 (70 °C) | 25 | 20 ohm ±10 %   | ±150 |
| PV36P500C01B00 | 0.5 (70 °C) | 25 | 50 ohm ±10 %   | ±150 |
| PV36P101C01B00 | 0.5 (70 °C) | 25 | 100 ohm ±10 %  | ±150 |
| PV36P201C01B00 | 0.5 (70 °C) | 25 | 200 ohm ±10 %  | ±100 |
| PV36P501C01B00 | 0.5 (70 °C) | 25 | 500 ohm ±10 %  | ±100 |
| PV36P102C01B00 | 0.5 (70 °C) | 25 | 1k ohm ±10 %   | ±100 |
| PV36P202C01B00 | 0.5 (70 °C) | 25 | 2k ohm ±10 %   | ±100 |
| PV36P502C01B00 | 0.5 (70 °C) | 25 | 5k ohm ±10 %   | ±100 |
| PV36P103C01B00 | 0.5 (70 °C) | 25 | 10k ohm ±10 %  | ±100 |
| PV36P203C01B00 | 0.5 (70 °C) | 25 | 20k ohm ±10 %  | ±100 |
| PV36P253C01B00 | 0.5 (70 °C) | 25 | 25k ohm ±10 %  | ±100 |
| PV36P503C01B00 | 0.5 (70 °C) | 25 | 50k ohm ±10 %  | ±100 |
| PV36P104C01B00 | 0.5 (70 °C) | 25 | 100k ohm ±10 % | ±100 |
| PV36P204C01B00 | 0.5 (70 °C) | 25 | 200k ohm ±10 % | ±100 |
| PV36P254C01B00 | 0.5 (70 °C) | 25 | 250k ohm ±10 % | ±100 |
| PV36P504C01B00 | 0.5 (70 °C) | 25 | 500k ohm ±10 % | ±100 |
| PV36P105C01B00 | 0.5 (70 °C) | 25 | 1M ohm ±10 %   | ±100 |
| PV36P205C01B00 | 0.5 (70 °C) | 25 | 2M ohm ±10 %   | ±100 |

|                |             |    |                |      |
|----------------|-------------|----|----------------|------|
| PV36Z100C01B00 | 0.5 (70 °C) | 25 | 10 ohm ±10 %   | ±150 |
| PV36Z200C01B00 | 0.5 (70 °C) | 25 | 20 ohm ±10 %   | ±150 |
| PV36Z500C01B00 | 0.5 (70 °C) | 25 | 50 ohm ±10 %   | ±150 |
| PV36Z101C01B00 | 0.5 (70 °C) | 25 | 100 ohm ±10 %  | ±150 |
| PV36Z201C01B00 | 0.5 (70 °C) | 25 | 200 ohm ±10 %  | ±100 |
| PV36Z501C01B00 | 0.5 (70 °C) | 25 | 500 ohm ±10 %  | ±100 |
| PV36Z102C01B00 | 0.5 (70 °C) | 25 | 1k ohm ±10 %   | ±100 |
| PV36Z202C01B00 | 0.5 (70 °C) | 25 | 2k ohm ±10 %   | ±100 |
| PV36Z502C01B00 | 0.5 (70 °C) | 25 | 5k ohm ±10 %   | ±100 |
| PV36Z103C01B00 | 0.5 (70 °C) | 25 | 10k ohm ±10 %  | ±100 |
| PV36Z203C01B00 | 0.5 (70 °C) | 25 | 20k ohm ±10 %  | ±100 |
| PV36Z253C01B00 | 0.5 (70 °C) | 25 | 25k ohm ±10 %  | ±100 |
| PV36Z503C01B00 | 0.5 (70 °C) | 25 | 50k ohm ±10 %  | ±100 |
| PV36Z104C01B00 | 0.5 (70 °C) | 25 | 100k ohm ±10 % | ±100 |
| PV36Z204C01B00 | 0.5 (70 °C) | 25 | 200k ohm ±10 % | ±100 |
| PV36Z254C01B00 | 0.5 (70 °C) | 25 | 250k ohm ±10 % | ±100 |
| PV36Z504C01B00 | 0.5 (70 °C) | 25 | 500k ohm ±10 % | ±100 |
| PV36Z105C01B00 | 0.5 (70 °C) | 25 | 1M ohm ±10 %   | ±100 |
| PV36Z205C01B00 | 0.5 (70 °C) | 25 | 2M ohm ±10 %   | ±100 |

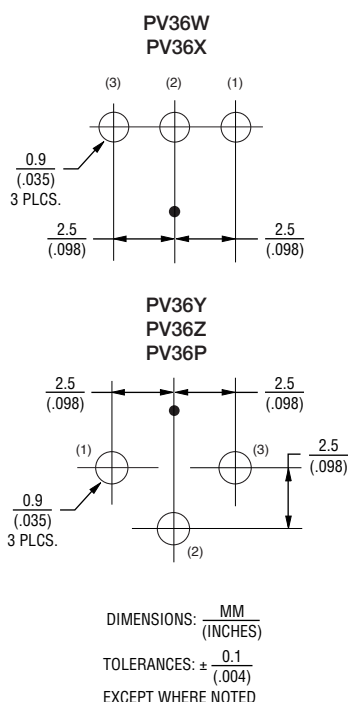
Operating Temperature Range: -55 to +125 °C

Soldering Method: Wave (Single and Dual)

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## Standard Mounting Holes



## Characteristics

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Temperature Cycle         | $\Delta TR$ : $\pm 2\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| Humidity                  | $\Delta TR$ : $\pm 2\%$<br>IR : 100M ohm min.                                                     |
| Vibration (20G)           | $\Delta TR$ : $\pm 1\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| Shock (100G)              | $\Delta TR$ : $\pm 1\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| Temperature Load Life     | $\Delta TR$ : $\pm 3\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| Low Temperature Exposure  | $\Delta TR$ : $\pm 2\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| High Temperature Exposure | $\Delta TR$ : $\pm 3\%$<br>$\Delta V.S.S.$ : $\pm 1\%$                                            |
| Rotational Life           | $\Delta TR$ : RV 1k ohm, RU500k ohm ... $\pm 5\%$<br>1k ohmFRF500k ohm ... $\pm 3\%$ (200 cycles) |

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

## Part Numbering

Product ID **PV 36 W 103 C01 B00**  
PV = Trimming Potentiometer  
Series 36 = Lead Sealed 10 mm Square, 25-Turns  
Adjustment Direction/Lead Type  
W = Top, Inline Y = Top, Triangle  
X = Side, Inline Z = Top, Triangle  
P = 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             |
| 20                | 200             |
| 50                | 500             |
| 100               | 101             |
| 200               | 201             |
| 500               | 501             |
| 1,000             | 102             |
| 2,000             | 202             |
| 5,000             | 502             |
| 10,000            | 103             |
| 20,000            | 203             |
| 25,000            | 253             |
| 50,000            | 503             |
| 100,000           | 104             |
| 200,000           | 204             |
| 250,000           | 254             |
| 500,000           | 504             |
| 1,000,000         | 105             |
| 2,000,000         | 205             |

Popular 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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