# Trimmer Potentiometers

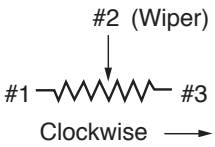
BOURNS®

## Lead Sealed Type Multiturn PV36 Series

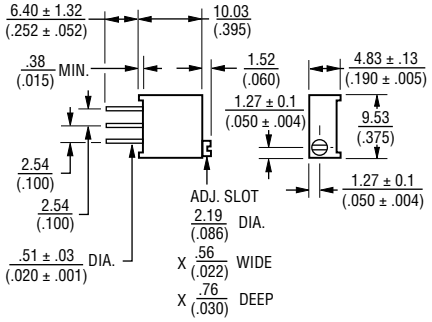
### PV36 Series

### ■ Features

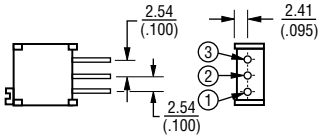
1. Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. Standoffs allow thorough PC board washing
5. Chevron seal design
6. RoHS compliant*
7. For trimmer applications/processing guidelines,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



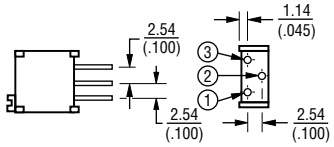

**COMMON DIMENSIONS**



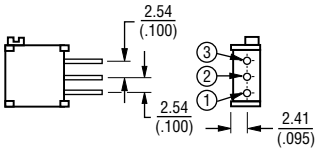

**PV36W**



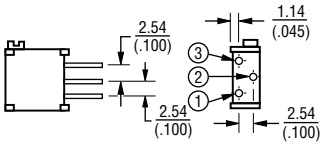

**PV36Y**



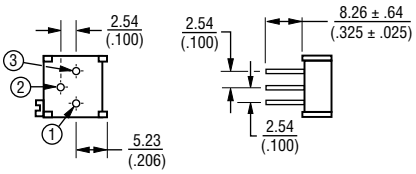

**PV36X**




**PV36Z**




**PV36P**




DIMENSIONS: MM (INCHES)

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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**WARNING**
**Cancer and Reproductive Harm**
www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar. 31, 2015 and Annex.

## Top Adjustment

| Part Number | Power Rating (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value | TCR (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)

## Side Adjustment

| Part Number | Power Rating (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value | TCR (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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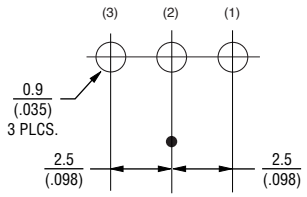
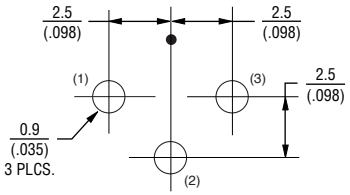
## Standard Mounting Holes

PV36W
PV36X




PV36Y
PV36Z
PV36P




DIMENSIONS: MM / (INCHES)

TOLERANCES: ± 0.1 / (.004)

EXCEPT WHERE NOTED

## Characteristics

| | |
|---|---|
| Temperature Cycle | ΔTR : ±2%<br>ΔV.S.S.: ±1% |
| Humidity | ΔTR : ±2%<br>IR : 100M ohm min. |
| Vibration (20G) | ΔTR : ±1%<br>ΔV.S.S.: ±1% |
| Shock (100G) | ΔTR : ±1%<br>ΔV.S.S.: ±1% |
| Temperature Load Life | ΔTR : ±3%<br>ΔV.S.S.: ±1% |
| Low Temperature Exposure | ΔTR : ±2%<br>ΔV.S.S.: ±1% |
| High Temperature Exposure | ΔTR : ±3%<br>ΔV.S.S.: ±1% |
| Rotational Life | ΔTR : RV 1k ohm, RU 500k ohm ··· ±5%<br>1k ohm F RF 500k ohm ··· ±3% (200 cycles) |

ΔTR : Total Resistance Change
ΔV.S.S.: Voltage Setting Stability
IR : Insulation Resistance
R : Standard Total Resistance

## Part Numbering

**PV 36 W 103 C01 B00**

Product ID
PV = Trimming Potentiometer

Series
36 = Lead Sealed 10 mm Square, 25-Turns

Adjustment Direction/Lead Type
W = Top, Inline
X = Side, Inline
P = Side, Triangle
Y = Top, Triangle
Z = Top, 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*.