

**BOURNS®**

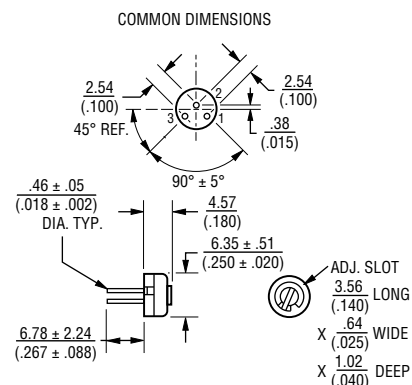
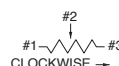
## Lead Sealed Type Single-turn PV32 Series

## ■ Features

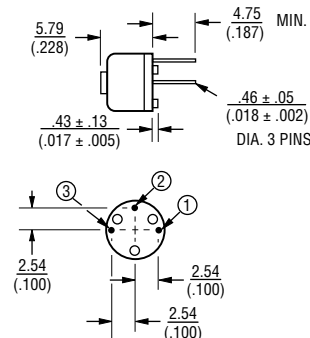
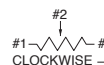
1. 1/4 " Round / Single-turn / Cermet / Sealed
2. Flammability: UL 94V-0
3. RoHS compliant\*
4. For trimmer applications/processing guidelines, [click here](#)



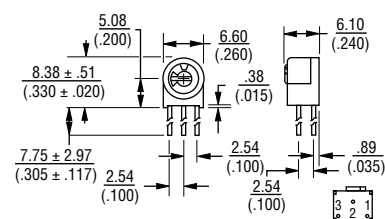
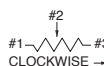
PV32H



PV32P



PV32N



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

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\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
Users should verify actual device performance in their specific applications.

## Top Adjustment

| Part Number    | Power Rating (W) | Number of Turns<br>(Effective Rotation Angle) | Mechanical Rotation Angle | Total Resistance Value | TCR (ppm/°C) |
|----------------|------------------|-----------------------------------------------|---------------------------|------------------------|--------------|
| PV32H100A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 10 ohm ±20 %           | ±100         |
| PV32H200A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 20 ohm ±20 %           | ±100         |
| PV32H500A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 50 ohm ±20 %           | ±100         |
| PV32H101A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 100 ohm ±20 %          | ±100         |
| PV32H201A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 200 ohm ±20 %          | ±100         |
| PV32H251A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 250 ohm ±20 %          | ±100         |
| PV32H501A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 500 ohm ±20 %          | ±100         |
| PV32H102A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 1k ohm ±20 %           | ±100         |
| PV32H202A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 2k ohm ±20 %           | ±100         |
| PV32H252A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 2.5k ohm ±20 %         | ±100         |
| PV32H502A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 5k ohm ±20 %           | ±100         |
| PV32H103A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 10k ohm ±20 %          | ±100         |
| PV32H203A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 20k ohm ±20 %          | ±100         |
| PV32H253A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 25k ohm ±20 %          | ±100         |
| PV32H503A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 50k ohm ±20 %          | ±100         |
| PV32H104A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 100k ohm ±20 %         | ±100         |
| PV32H204A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 200k ohm ±20 %         | ±100         |
| PV32H254A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 250k ohm ±20 %         | ±100         |
| PV32H504A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 500k ohm ±20 %         | ±100         |
| PV32H105A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 1M ohm ±20 %           | ±100         |

|                |             |               |            |                |      |
|----------------|-------------|---------------|------------|----------------|------|
| PV32P100A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 10 ohm ±20 %   | ±100 |
| PV32P200A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 20 ohm ±20 %   | ±100 |
| PV32P500A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 50 ohm ±20 %   | ±100 |
| PV32P101A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 100 ohm ±20 %  | ±100 |
| PV32P201A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 200 ohm ±20 %  | ±100 |
| PV32P251A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 250 ohm ±20 %  | ±100 |
| PV32P501A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 500 ohm ±20 %  | ±100 |
| PV32P102A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 1k ohm ±20 %   | ±100 |
| PV32P202A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 2k ohm ±20 %   | ±100 |
| PV32P252A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 2.5k ohm ±20 % | ±100 |
| PV32P502A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 5k ohm ±20 %   | ±100 |
| PV32P103A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 10k ohm ±20 %  | ±100 |
| PV32P203A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 20k ohm ±20 %  | ±100 |
| PV32P253A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 25k ohm ±20 %  | ±100 |
| PV32P503A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 50k ohm ±20 %  | ±100 |
| PV32P104A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 100k ohm ±20 % | ±100 |
| PV32P204A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 200k ohm ±20 % | ±100 |
| PV32P254A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 250k ohm ±20 % | ±100 |
| PV32P504A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 500k ohm ±20 % | ±100 |
| PV32P105A0xB00 | 0.5 (70 °C) | 1 (235 ° ±5°) | 270 ° ±5 ° | 1M ohm ±20 %   | ±100 |

Operating Temperature Range: -55 to 125 °C

Soldering Method: Wave (Single and Dual)

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## Side Adjustment

| Part Number    | Power Rating (W) | Number of Turns<br>(Effective Rotation Angle) | Mechanical Rotation Angle | Total Resistance Value | TCR (ppm/°C) |
|----------------|------------------|-----------------------------------------------|---------------------------|------------------------|--------------|
| PV32N100A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 10 ohm ±20 %           | ±100         |
| PV32N200A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 20 ohm ±20 %           | ±100         |
| PV32N500A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 50 ohm ±20 %           | ±100         |
| PV32N101A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 100 ohm ±20 %          | ±100         |
| PV32N201A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 200 ohm ±20 %          | ±100         |
| PV32N251A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 250 ohm ±20 %          | ±100         |
| PV32N501A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 500 ohm ±20 %          | ±100         |
| PV32N102A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 1k ohm ±20 %           | ±100         |
| PV32N202A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 2k ohm ±20 %           | ±100         |
| PV32N252A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 2.5k ohm ±20 %         | ±100         |
| PV32N502A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 5k ohm ±20 %           | ±100         |
| PV32N103A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 10k ohm ±20 %          | ±100         |
| PV32N203A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 20k ohm ±20 %          | ±100         |
| PV32N253A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 25k ohm ±20 %          | ±100         |
| PV32N503A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 50k ohm ±20 %          | ±100         |
| PV32N104A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 100k ohm ±20 %         | ±100         |
| PV32N204A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 200k ohm ±20 %         | ±100         |
| PV32N254A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 250k ohm ±20 %         | ±100         |
| PV32N504A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 500k ohm ±20 %         | ±100         |
| PV32N105A0xB00 | 0.5 (70 °C)      | 1 (235 ° ±5°)                                 | 270 ° ±5 °                | 1M ohm ±20 %           | ±100         |

Operating Temperature Range: -55 to 125 °C

Soldering Method: Wave (Single and Dual)

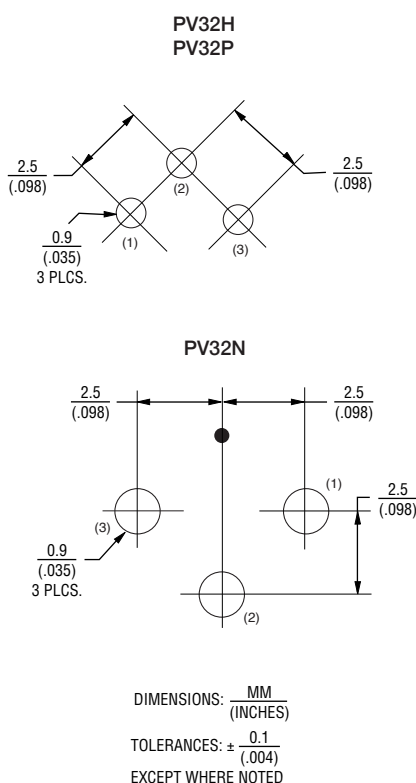
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## Standard Mounting Holes



## 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.*

## Part Numbering

Product ID **PV 32 P 103 A01 B00**  
PV = Trimming Potentiometer  
Series 32 = Lead Sealed 6 mm Round Single-turn  
Adjustment Direction/Lead Type  
H = Top, Triangle  
P = Top, Triangle  
N = 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             |
| <b>100</b>        | <b>101</b>      |
| <b>200</b>        | <b>201</b>      |
| <b>250</b>        | <b>251</b>      |
| <b>500</b>        | <b>501</b>      |
| <b>1,000</b>      | <b>102</b>      |
| <b>2,000</b>      | <b>202</b>      |
| <b>2,500</b>      | <b>252</b>      |
| <b>5,000</b>      | <b>502</b>      |
| <b>10,000</b>     | <b>103</b>      |
| <b>20,000</b>     | <b>203</b>      |
| <b>25,000</b>     | <b>253</b>      |
| <b>50,000</b>     | <b>503</b>      |
| <b>100,000</b>    | <b>104</b>      |
| 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  
A01 = Standard Type  
A02 = 10 % Resistance Tolerance

Packaging  
B00 = Tube (50 pcs. per tube)

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