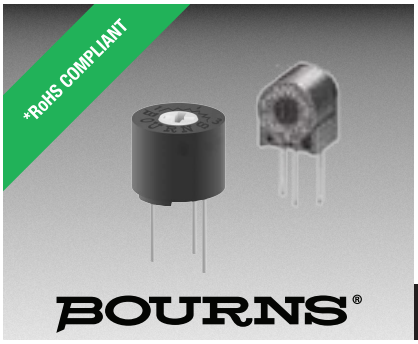


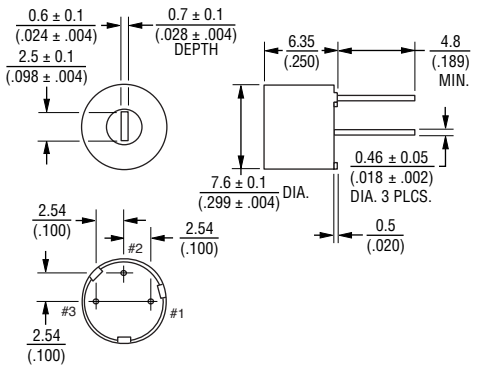

## Features

- Multiturn / Cermet / Sealed
- Available in both top and side adjustment
- Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
- RoHS compliant*
- For trimmer applications/processing guidelines, click here

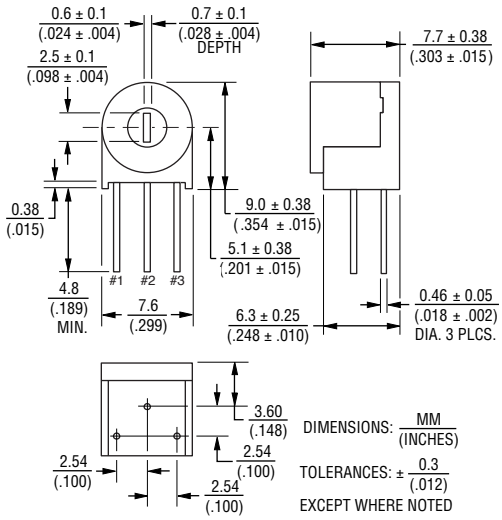
# PV12 Series – Lead Sealed Type Multiturn Trimming Potentiometer

## Product Dimensions

**PV12P – Top Adjustment**




**PV12T – Side Adjustment**




## Additional Information

Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

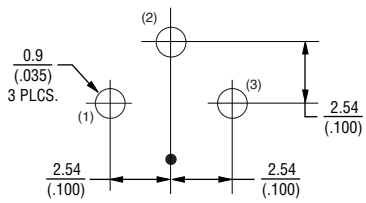
## Environmental Characteristics

Temperature Cycle
ΔTR .....±2 %
ΔV.S.S. .....±1 %
Humidity
..... ±2 % ΔTR; 100 megohms IR min.
Vibration ... 20 G (1 % ΔTR; 1 % ΔV.S.S.)
Shock..... 100 G (1 % ΔTR; 1 % ΔV.S.S.)
Temperature Load Life
..... 3 % ΔTR; 2 % ΔV.S.S.
Low Temperature Exposure
..... 3 % ΔTR; 1.5 % ΔV.S.S.
High Temperature Exposure
..... 3 % ΔTR; 1.5 % ΔV.S.S.
Rotational Life.....200 cycles, ΔTR ±3 %

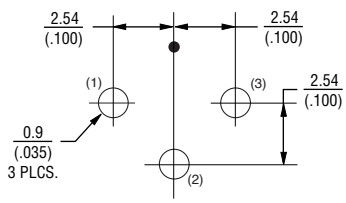
ΔTR: Total Resistance Change
ΔV.S.S.: Voltage Setting Stability
IR: Insulation Resistance

## Recommended PCB Layout

**PV12P**




**PV12T**




DIMENSIONS: MM (INCHES)

TOLERANCES: ± 0.1 (.004) EXCEPT WHERE NOTED

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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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Users should verify actual device performance in their specific applications.
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## Electrical Characteristics

| Model Number | Power Rating @ 70 °C (W) | Number of Turns (Effective Rotation Angle) | Total Resistance Value (Ω) | Resistance Tolerance | TCR (ppm/°C) |
|---|---|---|---|---|---|
| PV12x100A01B00 | 0.5 | 4 | 10 | ±10 % | ±100 |
| PV12x200A01B00 | | | 20 | | |
| PV12x500A01B00 | | | 50 | | |
| PV12x101A01B00 | | | 100 | | |
| PV12x201A01B00 | | | 200 | | |
| PV12x501A01B00 | | | 500 | | |
| PV12x102A01B00 | | | 1k | | |
| PV12x202A01B00 | | | 2k | | |
| PV12x502A01B00 | | | 5k | | |
| PV12x103A01B00 | | | 10k | | |
| PV12x203A01B00 | | | 20k | | |
| PV12x253A01B00 | | | 25k | | |
| PV12x503A01B00 | | | 50k | | |
| PV12x104A01B00 | | | 100k | | |
| PV12x204A01B00 | | | 200k | | |
| PV12x254A01B00 | | | 250k | | |
| PV12x504A01B00 | | | 500k | | |
| PV12x105A01B00 | | | 1M | | |

Operating Temperature Range: -55 to +125 °C
"x" denotes Adjustment Direction (Top or Side)

Soldering Method: Wave (Single and Dual)

## Typical Part Marking

**3-Digit Date Code and Manufacturing Code**

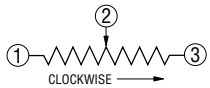
– First digit indicates year of manufacture;
– Last two digits indicate week of manufacture;
– 4th digit is suffix for manufacturing location:
C = Costa Rica

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

**Resistance Code**

– Resistance code marking as shown in the Standard Resistance Table.

## Schematic




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## How To Order

PV 12 P 103 A01 B00

Product ID
PV = Trimming Potentiometer

Series
12 = Lead Sealed 7 mm Round 4-turns

Adjustment Direction/Lead Type
P = Top, Triangle
T = Side, Triangle

Resistance Code
See Standard Resistance Table

Individual Specification
A01 = Standard Type

Packaging
B00 = Tube (50 pcs. per tube)

## Standard Resistance Table

| 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 |

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

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