



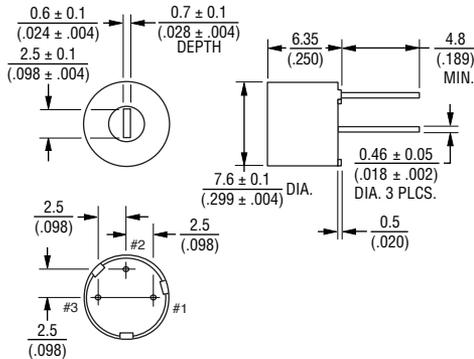
## Features

- 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](#)

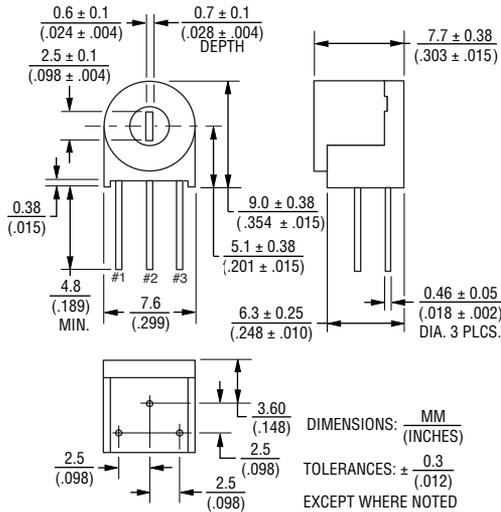
## PV12 Series – Lead Sealed Type Multiturn Trimming Potentiometer

### Product Dimensions

#### PV12P – Top Adjustment



#### PV12T – Side Adjustment



### Additional Information

Click these links for more information:



### Environmental Characteristics

#### Temperature Cycle

$\Delta$ TR .....  $\pm 2$  %  
 $\Delta$ V.S.S. ....  $\pm 1$  %

#### Humidity

.....  $\pm 2$  %  $\Delta$ TR; 100 megohms IR min.  
 Vibration ... 20 G (1 %  $\Delta$ TR; 1 %  $\Delta$ V.S.S.)  
 Shock..... 100 G (1 %  $\Delta$ TR; 1 %  $\Delta$ V.S.S.)

#### Temperature Load Life

..... 3 %  $\Delta$ TR; 2 %  $\Delta$ V.S.S.

#### Low Temperature Exposure

..... 3 %  $\Delta$ TR; 1.5 %  $\Delta$ V.S.S.

#### High Temperature Exposure

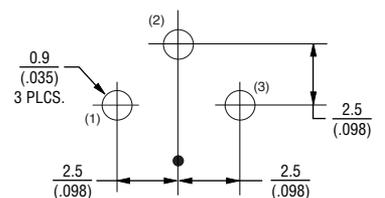
..... 3 %  $\Delta$ TR; 1.5 %  $\Delta$ V.S.S.

#### Rotational Life.....200 cycles, $\Delta$ TR $\pm 3$ %

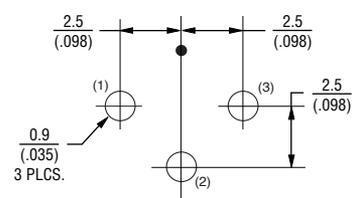
$\Delta$ TR: Total Resistance Change  
 $\Delta$ V.S.S.: Voltage Setting Stability  
 IR: Insulation Resistance

### Recommended PCB Layout

#### PV12P



#### PV12T



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

TOLERANCES:  $\pm \frac{0.1}{(0.004)}$  EXCEPT WHERE NOTED



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

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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# PV12 Series – Lead Sealed Type Multiturn Trimming Potentiometer **BOURNS®**

## 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

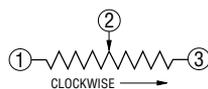
- First digit indicates year of manufacture;
- Last two digits indicate week of manufacture;
- 4th digit is suffix for manufacturing location:  
C = Costa Rica

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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# PV12 Series – Lead Sealed Type Multiturn Trimming Potentiometer **BOURNS®**

## 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
<b>100</b>	<b>101</b>
<b>200</b>	<b>201</b>
<b>500</b>	<b>501</b>
<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>
<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 values listed in **boldface**.  
 Special resistances available.

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**Asia-Pacific:** Tel: +886-2 2562-4117 • Email: [asiacus@bourns.com](mailto:asiacus@bourns.com)

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REV. 08/19

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