

# Trimmer Potentiometers



## Lead Sealed Type Multiturn PV12 Series

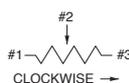
### PV12 Series

#### ■ Features

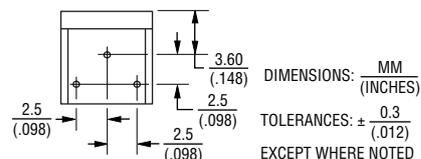
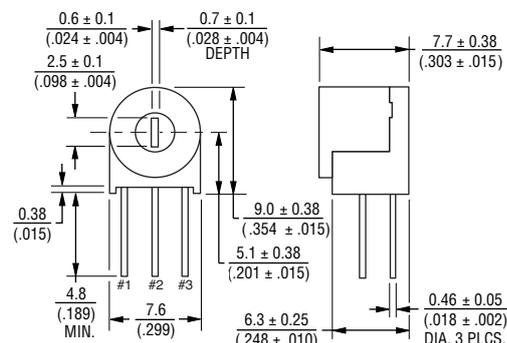
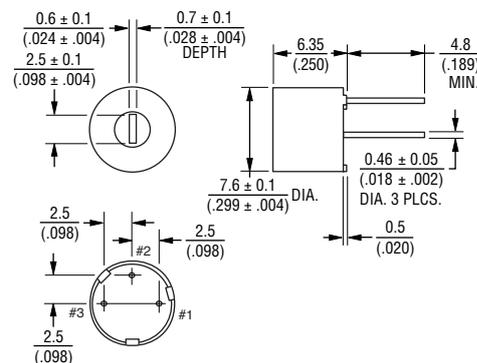
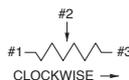
1. Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. RoHS compliant\*
5. For trimmer applications/processing guidelines, [click here](#)



PV12P



PV12T



### Top Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PV12P100A01B00	0.5 (70 °C)	4	10 ohm ± 10 %	±100
PV12P200A01B00	0.5 (70 °C)	4	20 ohm ± 10 %	±100
PV12P500A01B00	0.5 (70 °C)	4	50 ohm ± 10 %	±100
PV12P101A01B00	0.5 (70 °C)	4	100 ohm ± 10 %	±100
PV12P201A01B00	0.5 (70 °C)	4	200 ohm ± 10 %	±100
PV12P501A01B00	0.5 (70 °C)	4	500 ohm ± 10 %	±100
PV12P102A01B00	0.5 (70 °C)	4	1k ohm ± 10 %	±100
PV12P202A01B00	0.5 (70 °C)	4	2k ohm ± 10 %	±100
PV12P502A01B00	0.5 (70 °C)	4	5k ohm ± 10 %	±100
PV12P103A01B00	0.5 (70 °C)	4	10k ohm ± 10 %	±100
PV12P203A01B00	0.5 (70 °C)	4	20k ohm ± 10 %	±100
PV12P253A01B00	0.5 (70 °C)	4	25k ohm ± 10 %	±100
PV12P503A01B00	0.5 (70 °C)	4	50k ohm ± 10 %	±100
PV12P104A01B00	0.5 (70 °C)	4	100k ohm ± 10 %	±100
PV12P204A01B00	0.5 (70 °C)	4	200k ohm ± 10 %	±100
PV12P254A01B00	0.5 (70 °C)	4	250k ohm ± 10 %	±100
PV12P504A01B00	0.5 (70 °C)	4	500k ohm ± 10 %	±100
PV12P105A01B00	0.5 (70 °C)	4	1M ohm ± 10 %	±100

Operating Temperature Range: -55 to +125 °C  
Soldering Method: Wave (Single and Dual)



\*RoHS Directive 2015/863, Mar. 31, 2015 and Annex.  
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**WARNING**  
Cancer and Reproductive Harm  
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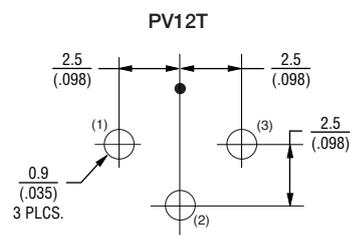
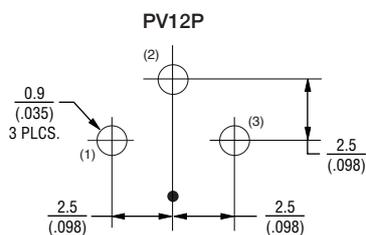
## Side Adjustment

Part Number	Power Rating (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)
PV12T100A01B00	0.5 (70°C)	4	10 ohm ± 10 %	±100
PV12T200A01B00	0.5 (70°C)	4	20 ohm ± 10 %	±100
PV12T500A01B00	0.5 (70°C)	4	50 ohm ± 10 %	±100
PV12T101A01B00	0.5 (70°C)	4	100 ohm ± 10 %	±100
PV12T201A01B00	0.5 (70°C)	4	200 ohm ± 10 %	±100
PV12T501A01B00	0.5 (70°C)	4	500 ohm ± 10 %	±100
PV12T102A01B00	0.5 (70°C)	4	1k ohm ± 10 %	±100
PV12T202A01B00	0.5 (70°C)	4	2k ohm ± 10 %	±100
PV12T502A01B00	0.5 (70°C)	4	5k ohm ± 10 %	±100
PV12T103A01B00	0.5 (70°C)	4	10k ohm ± 10 %	±100
PV12T203A01B00	0.5 (70°C)	4	20k ohm ± 10 %	±100
PV12T503A01B00	0.5 (70°C)	4	25k ohm ± 10 %	±100
PV12T503A01B00	0.5 (70°C)	4	50k ohm ± 10 %	±100
PV12T104A01B00	0.5 (70°C)	4	100k ohm ± 10 %	±100
PV12T204A01B00	0.5 (70°C)	4	200k ohm ± 10 %	±100
PV12T254A01B00	0.5 (70°C)	4	250k ohm ± 10 %	±100
PV12T504A01B00	0.5 (70°C)	4	500k ohm ± 10 %	±100
PV12T105A01B00	0.5 (70°C)	4	1M ohm ± 10 %	±100

Operating Temperature Range: -55 to +125 °C

Soldering Method: Wave (Single and Dual)

## ■ Standard Mounting Holes



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

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

EXCEPT WHERE NOTED

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## ■ Characteristics

Temperature Cycle	$\Delta TR$ : $\pm 2\%$ $\Delta V.S.S.$ : $\pm 1\%$
Humidity	$\Delta TR$ : $\pm 2\%$ IR : 100M ohm min.
Vibration (20G)	$\Delta TR$ : $\pm 1\%$ $\Delta V.S.S.$ : $\pm 1\%$
Shock (100G)	$\Delta TR$ : $\pm 1\%$ $\Delta V.S.S.$ : $\pm 1\%$
Temperature Load Life	$\Delta TR$ : $\pm 3\%$ $\Delta V.S.S.$ : $\pm 2\%$
Low Temperature Exposure	$\Delta TR$ : $\pm 3\%$ $\Delta V.S.S.$ : $\pm 1.5\%$
High Temperature Exposure	$\Delta TR$ : $\pm 3\%$ $\Delta V.S.S.$ : $\pm 1.5\%$
Rotational Life	$\Delta TR$ : $\pm 3\%$ (200 cycles)

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

## ■ 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

**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

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>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 resistance values listed in boldface. Special resistances available.

Individual Specification \_\_\_\_\_  
 A01 = Standard Type

Packaging \_\_\_\_\_  
 B00 = Tube (50 pcs. per tube)

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