Trimmer Potentiometers

BOURNS®

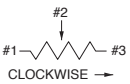
Lead Sealed Type Multiturn PV12 Series

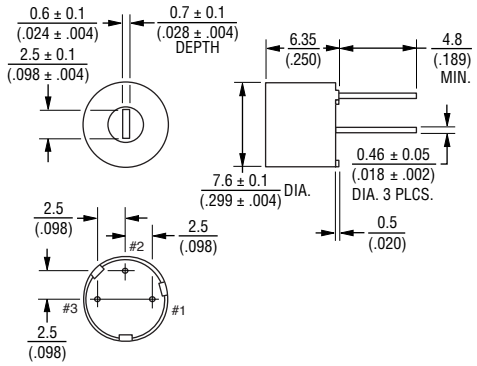
PV12 Series

■ Features

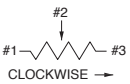
1. Multiturn / Cermet / Sealed
2. Available in both top and side adjustment
3. Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
4. RoHS compliant*
5. For trimmer applications/processing guidelines, click here

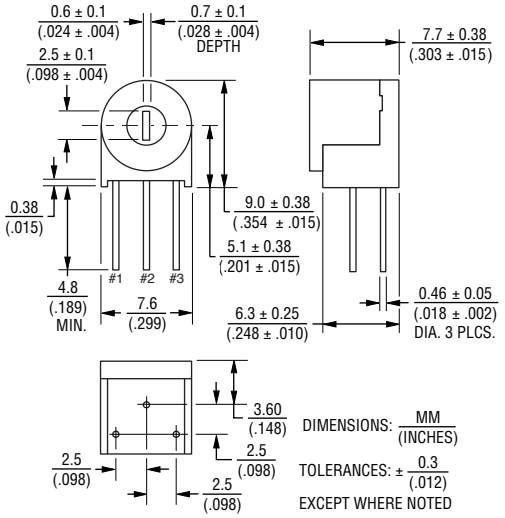
PV12P





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)

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

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

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
PV12T253A01B00	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

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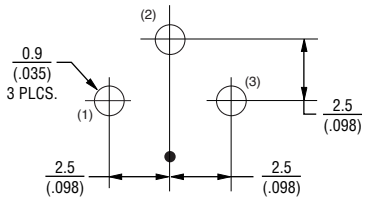
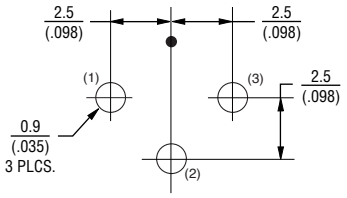
Soldering Method: Wave (Single and Dual)

■ Standard Mounting Holes

PV12P



PV12T



DIMENSIONS: MM (INCHES)
TOLERANCES: ± 0.1 (.004)
EXCEPT WHERE NOTED

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Characteristics

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

ΔTR : Total Resistance Change
ΔV.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
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 resistance values listed in boldface. Special resistances available.

Individual Specification
A01 = Standard Type

Packaging
B00 = Tube (50 pcs. per tube)

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