

## BOURNS

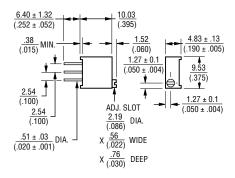
### **Features**

- Multiturn / Cermet / Sealed
- Available in both top and side adjustment
- Units can be pre-adjusted at clockwise, counter-clockwise or standard 50 % position
- Standoffs allow thorough PC board washing
- Chevron seal design
- RoHS compliant\*
- For trimmer applications/processing guidelines, click here

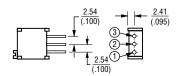
### PV36 Series – Lead Sealed Type Multiturn Trimming Potentiometer

### **Product Dimensions**

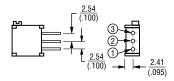
### **Common Dimensions**



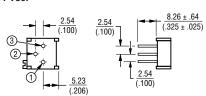
#### PV36W



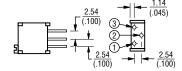
### PV36X



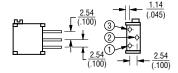
### PV36P



### PV36Y



### PV36Z



DIMENSIONS:

TOLERANCES:  $\pm \frac{0.3}{(.012)}$  EXCEPT WHERE NOTED

### **Additional Information**

Click these links for more information:











<u>INVENTORY</u>

SAMPLES

### **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; 1 % ΔV.S.S.
Low Temperature Exposure
2 % ΔTR; 1 % ΔV.S.S.
High Temperature Exposure
3 % ΔTR; 1 % ΔV.S.S.
Rotational Life
RV1K ohm, RU500K ohm±5 % $\Delta$ TR
1K ohm FRF500K ohm±3 % ΔTR
ΔTR: Total Resistance Change ΔV.S.S.: Voltage Setting Stability

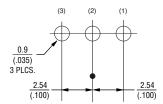
### **Schematic**

IR: Insulation Resistance

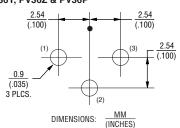


### **Recommended PCB Layout**

### **PV36W & PV36X**



### PV36Y, PV36Z & PV36P



EXCEPT WHERE NOTED



### WARNING Cancer and Reproductive Harm - 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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## **PV36 Series** – Lead Sealed Type Multiturn Trimming Potentiometer

### **Electrical Characteristics**

Model Number	Power Rating @ 70 °C (W)	Number of Turns (Effective Rotation Angle)	Total Resistance Value (Ω)	Resistance Tolerance	TCR (ppm/°C)
PV36x100C01B00	0.5	25	10	±10 %	±150
PV36x200C01B00			20		
PV36x500C01B00			50		
PV36x101C01B00			100		
PV36x201C01B00			200		±100
PV36x501C01B00			500		
PV36x102C01B00			1k		
PV36x202C01B00			2k		
PV36x502C01B00			5k		
PV36x103C01B00			10k		
PV36x203C01B00			20k		
PV36x253C01B00			25k		
PV36x503C01B00			50k		
PV36x104C01B00			100k		
PV36x204C01B00			200k		
PV36x254C01B00			250k		
PV36x504C01B00			500k		
PV36x105C01B00			1M		
PV36x205C01B00			2M		

Operating Temperature Range: -55 to +125 °C

Soldering Method: Wave (Single and Dual)

<sup>&</sup>quot;x" denotes Adjustment Direction and Lead Type (Top or Side Direction, Inline or Triangle Lead)

## **PV36 Series** – Lead Sealed Type Multiturn Trimming Potentiometer

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### **Typical Part Marking**

# 3-Digit Date Code and Manufacturing Code

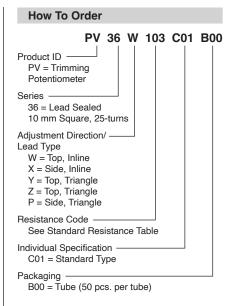
- First digit indicates year of manufacture;
- Last two digits indicate week of manufacture;
- 4th digit is suffix for manufacturing location:

C = Costa Rica

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

### **Resistance Code**

 Resistance code marking as shown in the Standard Resistance Table.



### **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
2,000,000	205

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

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