

## Features

- Carbon element
- 10-30 mm travel
- Center detent option
- Single or dual gang
- RoHS compliant\*



The Model PDV Series is currently available, but not recommended for new designs.

# PDV Series - Open Frame Slide Potentiometer

## Electrical Characteristics

Taper..... Linear, audio  
 Standard Resistance Range  
 ..... 1 K ohms to 1 M ohms  
 Standard Resistance Tolerance..... ±20 %  
 Residual Resistance  
 ..... 100 ohms or ±5 % max.

## Environmental Characteristics

Operating Temperature... -10 °C to +50 °C  
 Power Rating  
 Linear ..... 0.1 watt  
 Audio ..... 0.05 watt  
 Maximum Operating Voltage - Linear  
 10 mm Travel..... 100 VAC  
 15 mm Travel..... 100 VAC  
 20 mm Travel..... 200 VAC  
 30 mm Travel..... 200 VAC  
 Maximum Operating Voltage - Audio  
 10 mm Travel..... 50 VAC  
 15 mm Travel..... 50 VAC  
 20 mm Travel..... 150 VAC  
 30 mm Travel..... 150 VAC  
 Sliding Noise ..... 47 mV max.

## Mechanical Characteristics

Operating Force ..... 20 to 300 g-cm  
 Detent Torque ..... 50 to 400 g-cm  
 Lever Stop Strength ..... 3 kg-cm min.  
 Sliding Life..... 10,000 cycles  
 Std. Stroke Length ..... 10, 15, 20, 30 mm  
 Soldering Condition  
 Wave ..... 260 °C for 3 sec. max.  
 Manual..... Not recommended

## How To Order

**PDV 10 - 2 1 P - 102 A**

Model

Length of Travel  
 • 10 = 10 mm  
 • 15 = 15 mm  
 • 20 = 20 mm  
 • 30 = 30 mm

Detent Option  
 • 2 = No Detent  
 • 3 = Center Detent

Number of Gangs  
 • 1 = Single Gang  
 • 2 = Dual Gang

Mounting Type  
 (refer to drawings)  
 • P = Vertical Pins  
 • M = Horizontal Pins

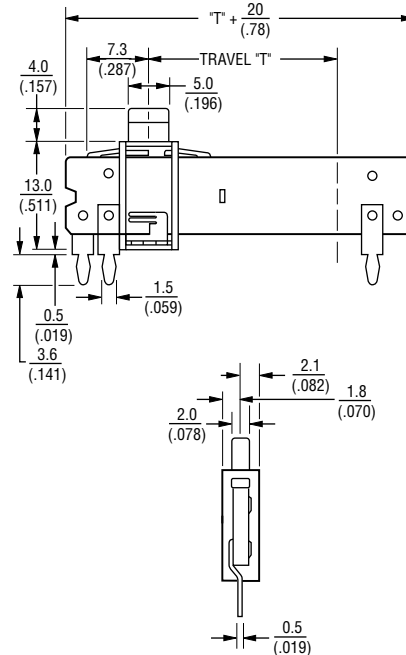
Resistance Code (See Table)

Resistance Taper  
 • A = Audio Taper  
 • B = Linear Taper

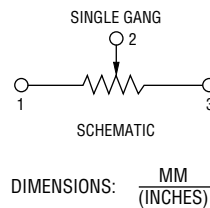
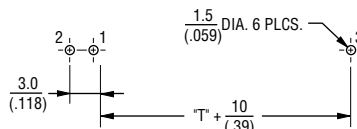
Other styles available.

## Product Dimensions

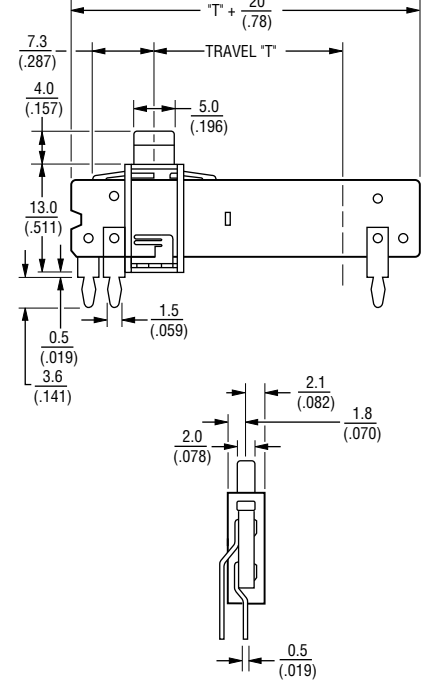
### PDVxx-x1P



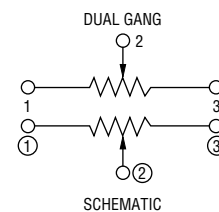
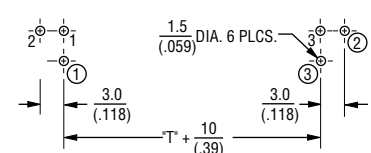
### RECOMMENDED PCB LAYOUT



### PDVxx-x2P



### RECOMMENDED PCB LAYOUT



\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

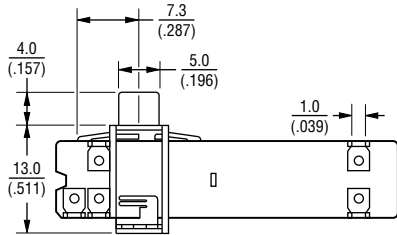
# Applications

- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

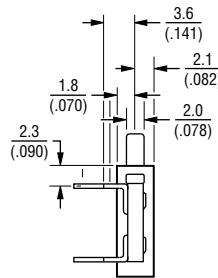
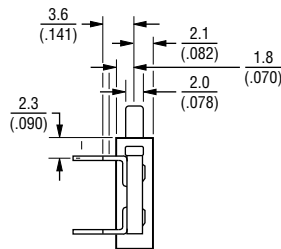
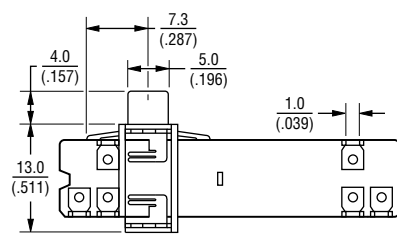
## PDV Series - Open Frame Slide Potentiometer BOURNS®

### Product Dimensions

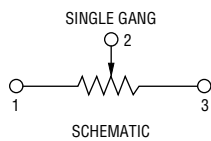
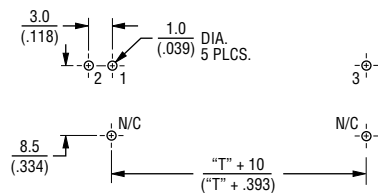
PDVxx-x1M



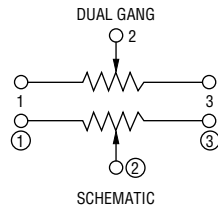
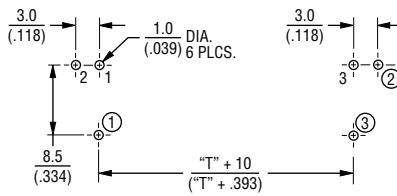
PDVxx-x2M



### RECOMMENDED PCB LAYOUT



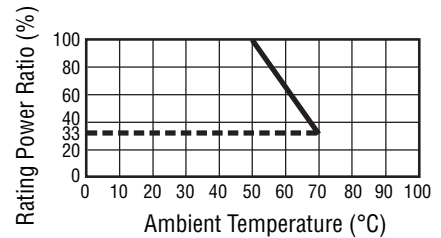
### RECOMMENDED PCB LAYOUT



### Standard Resistance Table

Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

### Derating Curve



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