



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



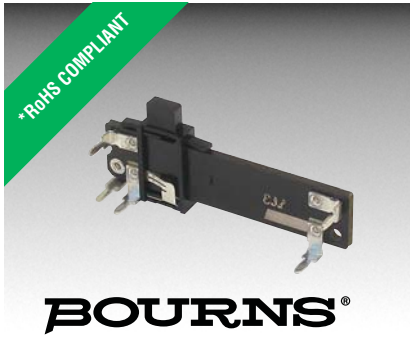
## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





## Features

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



Mounting Types A, B, C, D and H are available but not recommended for new designs. (See [Product Obsolescence Memo.](#))

# 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)

- A = Vertical Pins
- D = Vertical Pins
- P = Vertical Pins
- H = Horizontal Pins
- M = Horizontal Pins
- B = Horizontal Pins

Resistance Code (See Table)

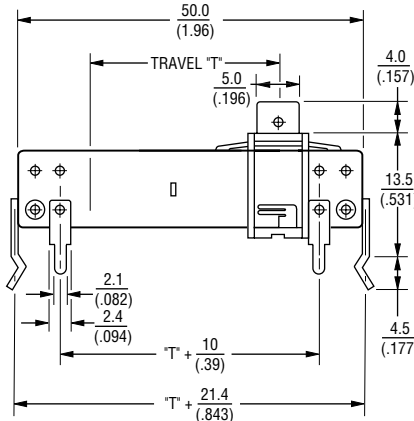
Resistance Taper

- A = Audio Taper
- B = Linear Taper

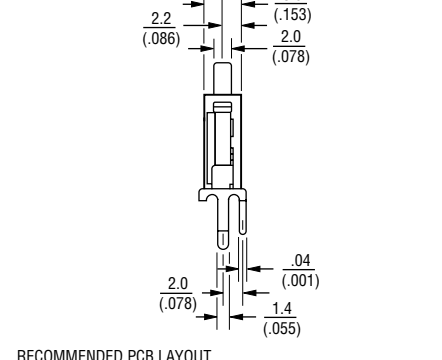
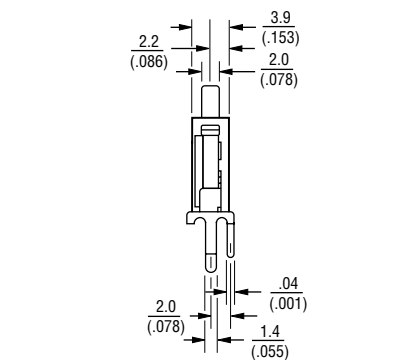
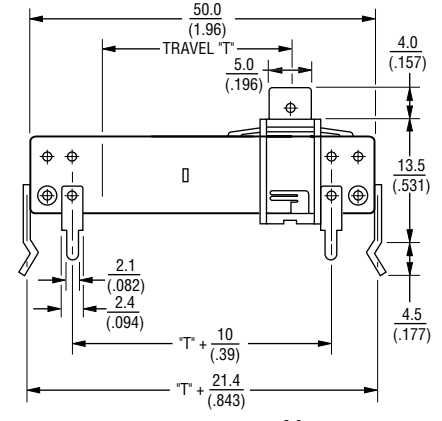
Other styles available.

## Product Dimensions

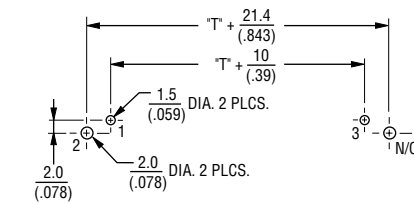
PDVxx-x1D



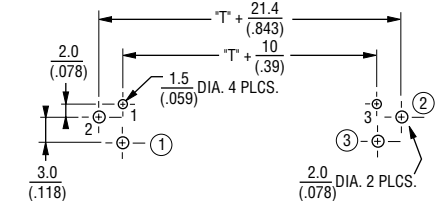
PDVxx-x2D



RECOMMENDED PCB LAYOUT



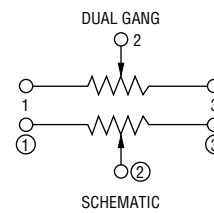
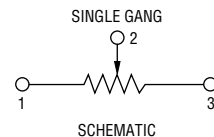
RECOMMENDED PCB LAYOUT



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

## 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



\*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. Customers should verify actual device performance in their specific applications.

# Applications

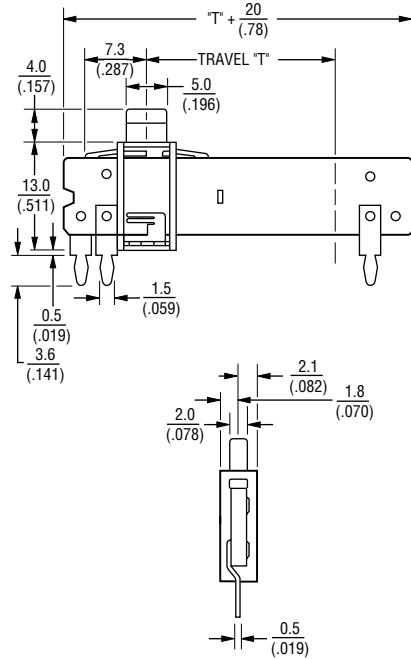
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

## PDV Series - Open Frame Slide Potentiometer

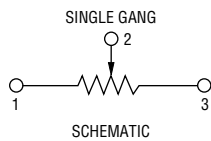
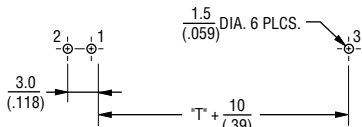
**BOURNS®**

### Product Dimensions

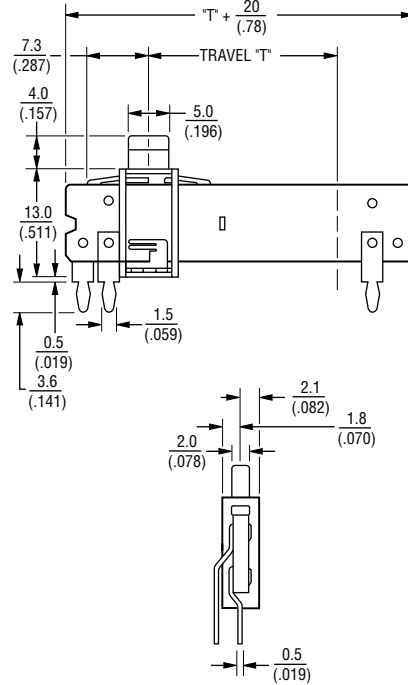
#### PDVxx-x1P



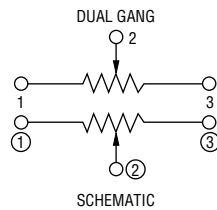
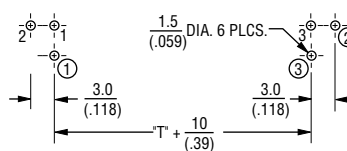
#### RECOMMENDED PCB LAYOUT



#### PDVxx-x2P

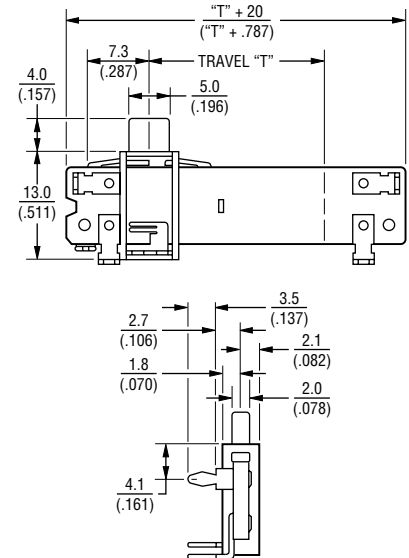


#### RECOMMENDED PCB LAYOUT

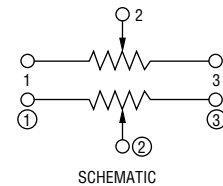
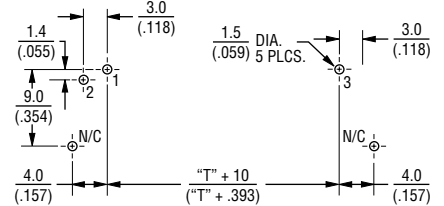


DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

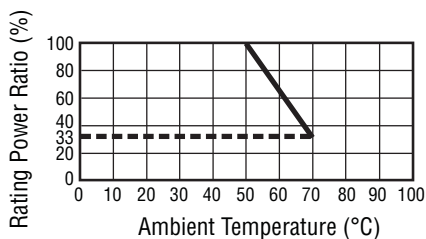
#### PDVxx-x1H



#### RECOMMENDED PCB LAYOUT



### Derating Curve

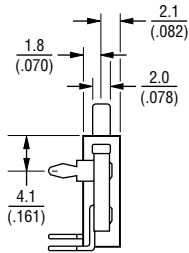
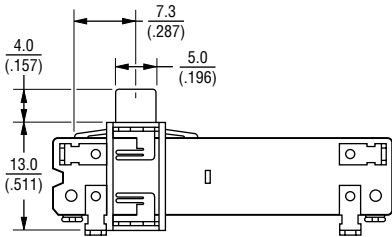


# PDV Series - Open Frame Slide Potentiometer

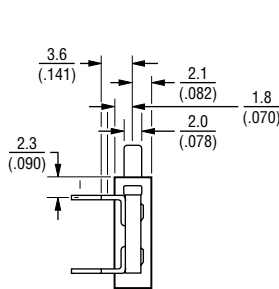
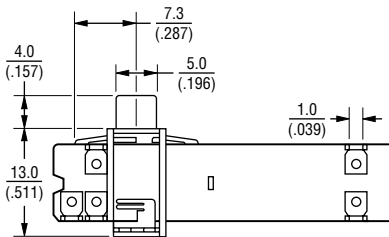
**BOURNS®**

## Product Dimensions

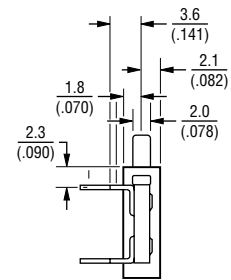
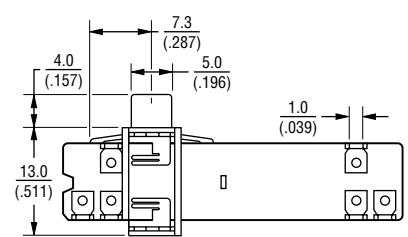
### PDVxx-x2H



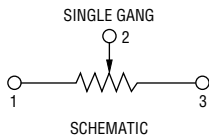
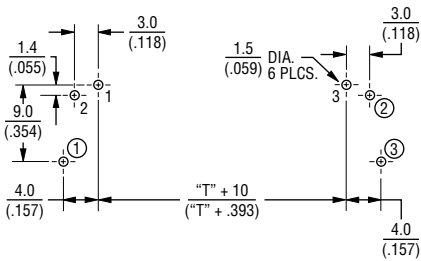
### PDVxx-x1M



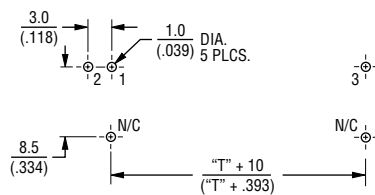
### PDVxx-x2M



### RECOMMENDED PCB LAYOUT

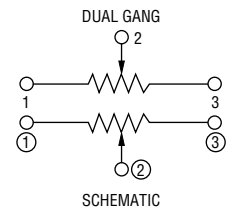
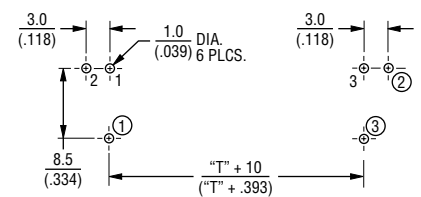


### RECOMMENDED PCB LAYOUT



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

### RECOMMENDED PCB LAYOUT

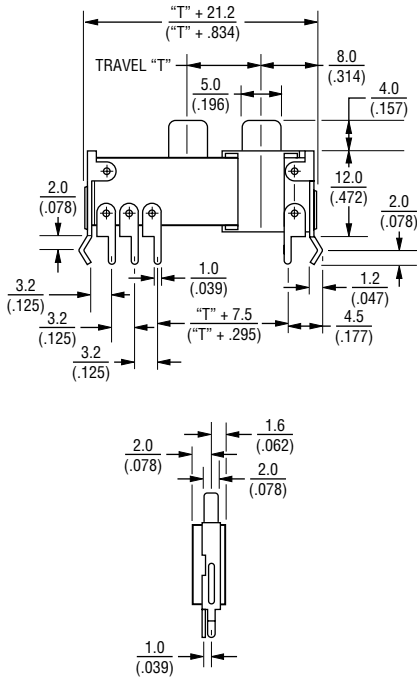


# PDV Series - Open Frame Slide Potentiometer

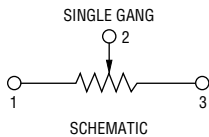
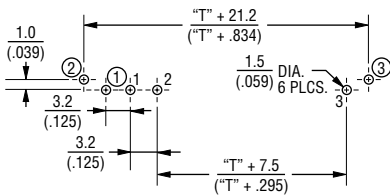
# BOURNS®

## Product Dimensions

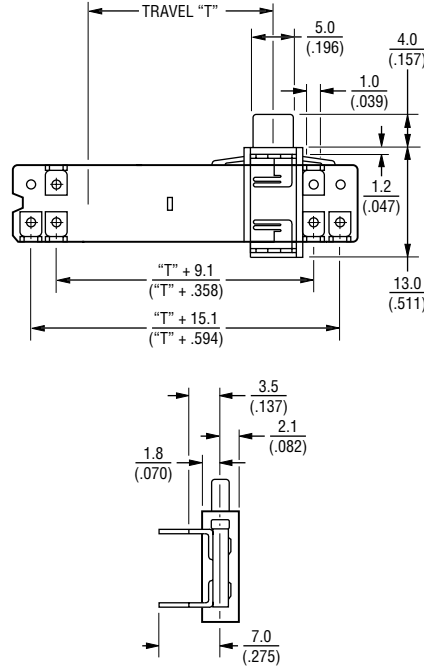
PDVxx-x2A



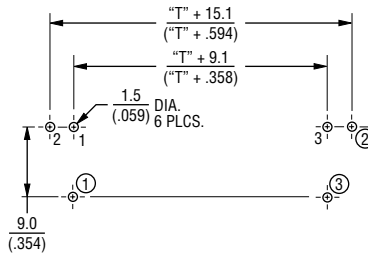
RECOMMENDED PCB LAYOUT



PDVxx-x2B

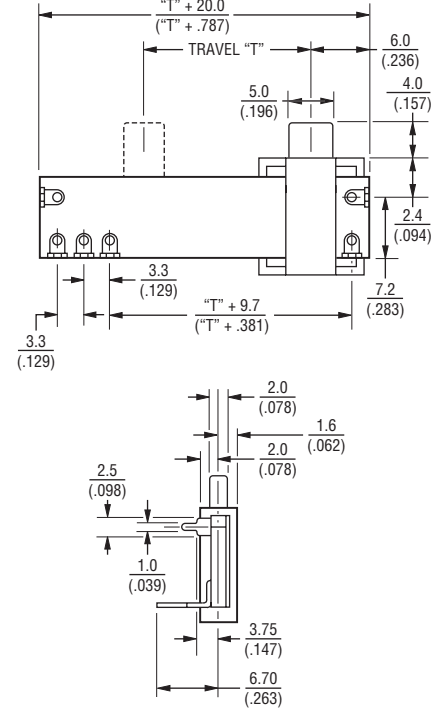


RECOMMENDED PCB LAYOUT



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

PDVxx-x2C



RECOMMENDED PCB LAYOUT

