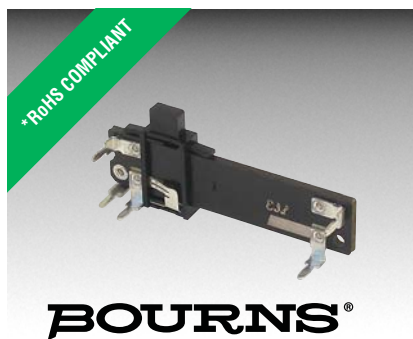




Features

- 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..... $\pm 20\%$
Residual Resistance
..... 100 ohms or $\pm 5\%$ max.

Environmental Characteristics

Operating Temperature.... -10°C to $+50^{\circ}\text{C}$
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)

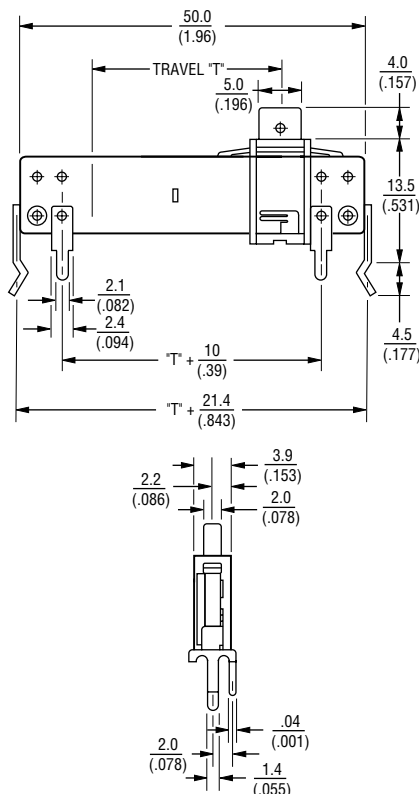
Resistance Taper

- A = Audio Taper
- B = Linear Taper

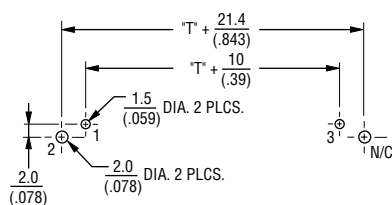
Other styles available.

Product Dimensions

PDVxx-x1D

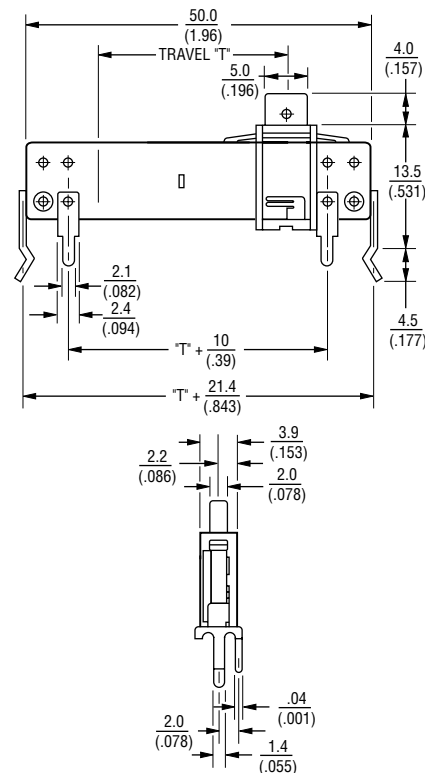


RECOMMENDED PCB LAYOUT

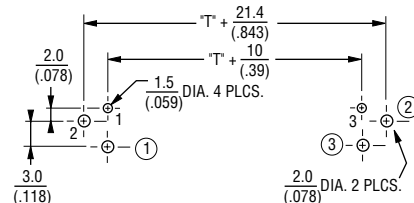


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

PDVxx-x2D

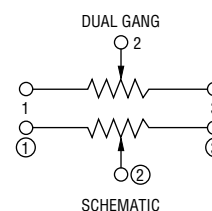
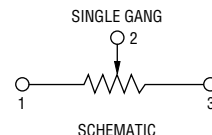


RECOMMENDED PCB LAYOUT



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

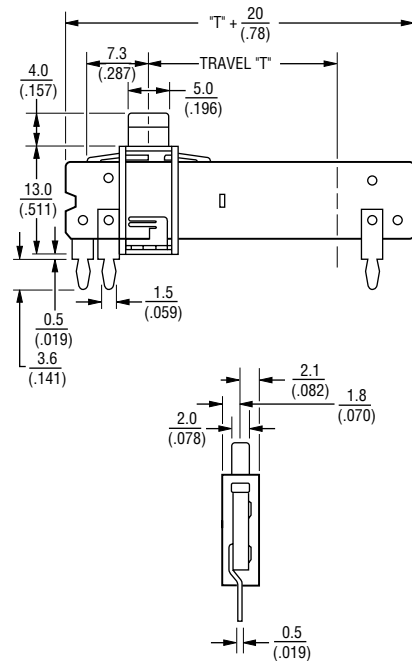


*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

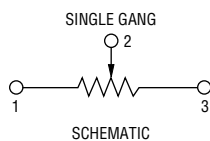
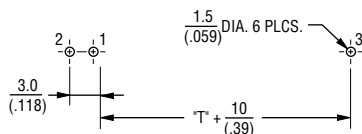
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

BOURNS®

PDVxx-x1P



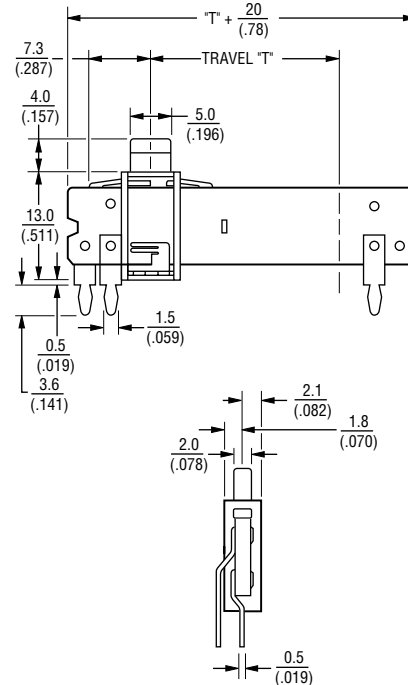
RECOMMENDED PCB LAYOUT



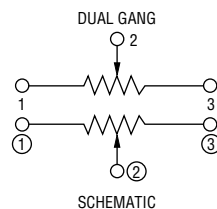
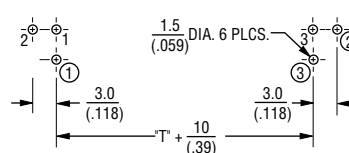
The graph shows the Rating Power Ratio (%) on the y-axis (0 to 100) versus Ambient Temperature (°C) on the x-axis (0 to 100). A dashed horizontal line at 33% indicates constant power rating from 0°C to 65°C. A solid line shows a linear increase from 33% at 65°C to 100% at 50°C.

Ambient Temperature (°C)	Rating Power Ratio (%)
0	33
65	33
50	100

PDVxx-x2P

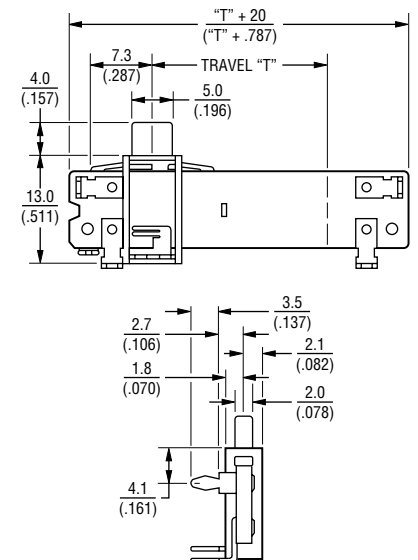


RECOMMENDED PCB LAYOUT

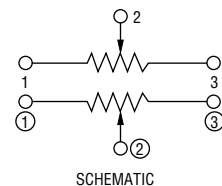
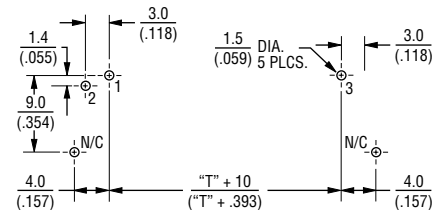


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

PDVxx-x1H



RECOMMENDED PCB LAYOUT



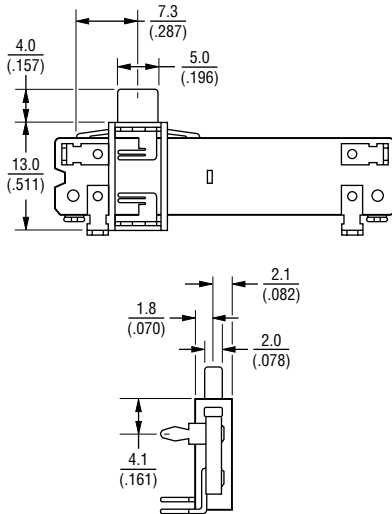
Specifications are subject to change without notice.
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PDV Series - Open Frame Slide Potentiometer

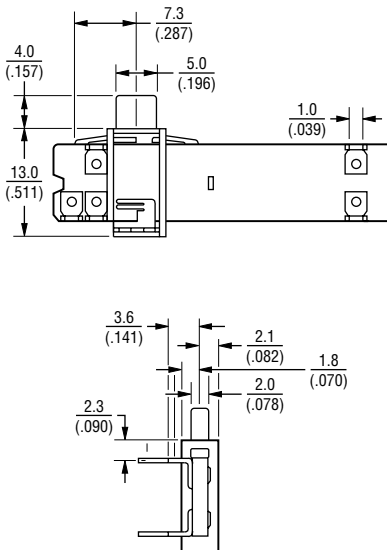
BOURNS®

Product Dimensions

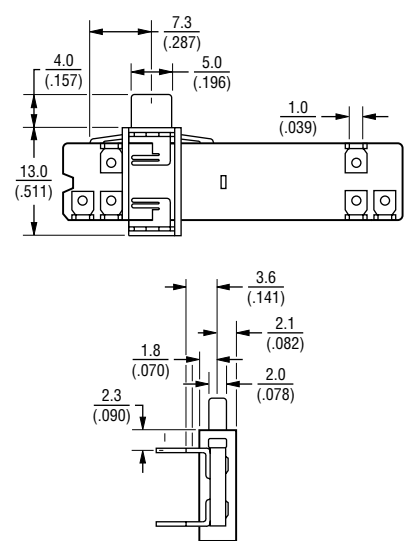
PDVxx-x2H



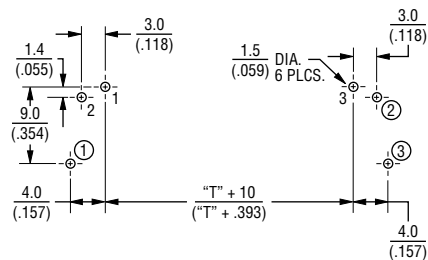
PDVxx-x1M



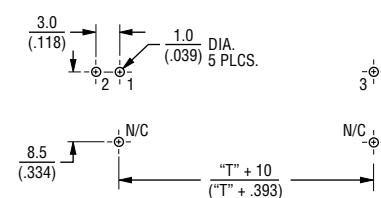
PDVxx-x2M



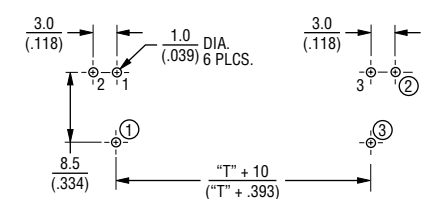
RECOMMENDED PCB LAYOUT



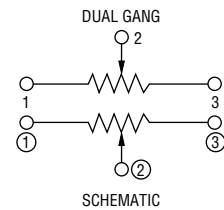
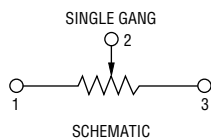
RECOMMENDED PCB LAYOUT



RECOMMENDED PCB LAYOUT



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

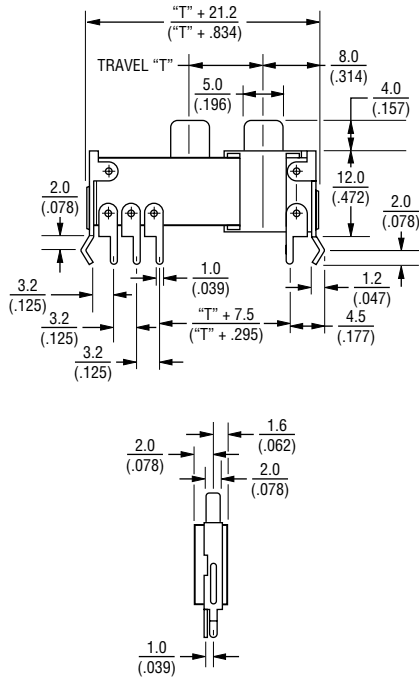


PDV Series - Open Frame Slide Potentiometer

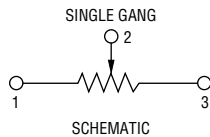
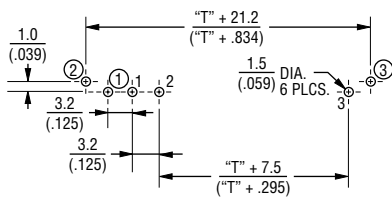
BOURNS®

Product Dimensions

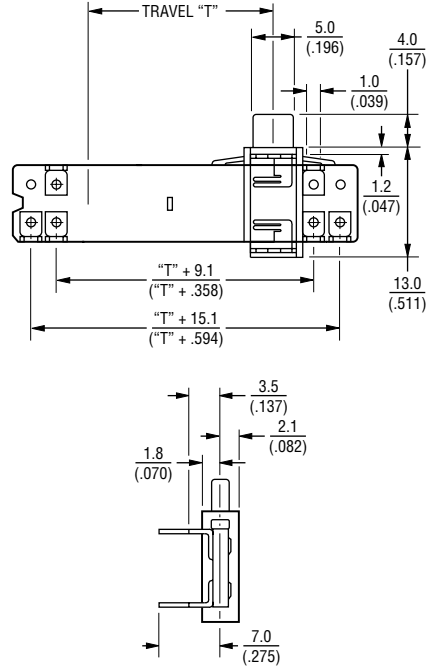
PDVxx-x2A



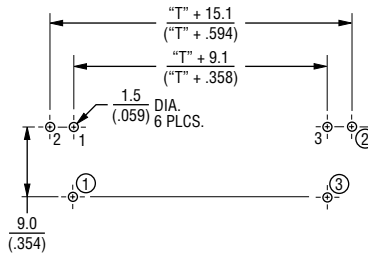
RECOMMENDED PCB LAYOUT



PDVxx-x2B

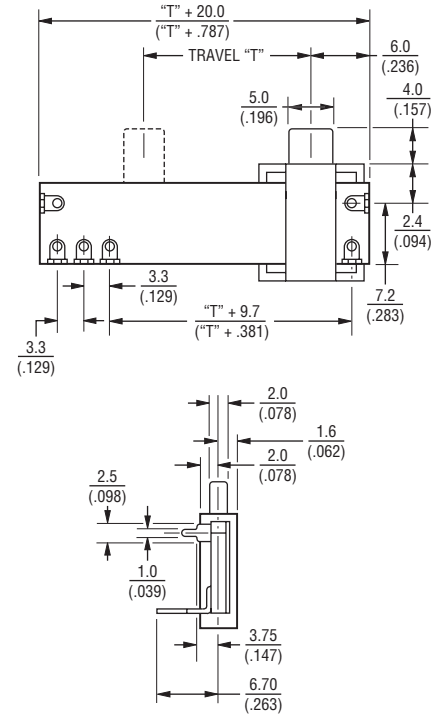


RECOMMENDED PCB LAYOUT

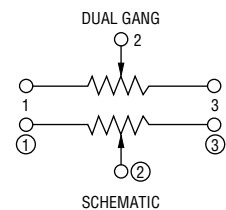
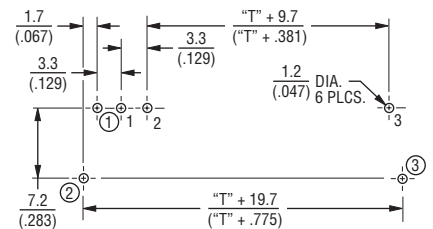


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

PDVxx-x2C



RECOMMENDED PCB LAYOUT



REV. 10/11

Specifications are subject to change without notice.
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