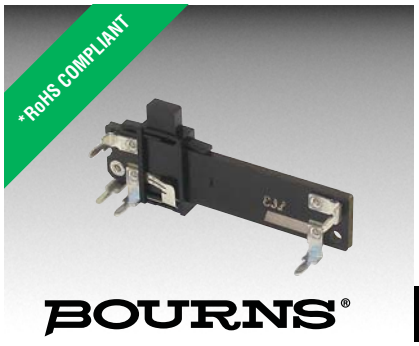


BOURNS®

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

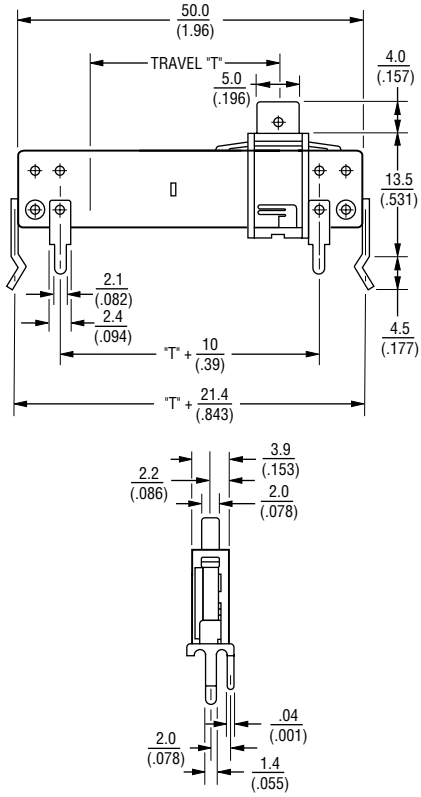
Resistance Code (See Table)

Resistance Taper
- A = Audio Taper
- B = Linear Taper

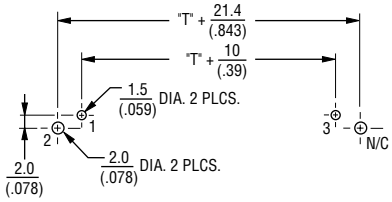
Other styles available.

Product Dimensions

PDVxx-x1D

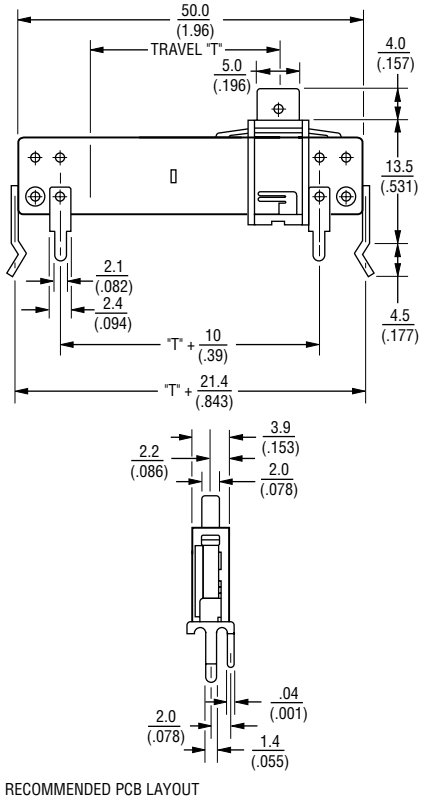


RECOMMENDED PCB LAYOUT

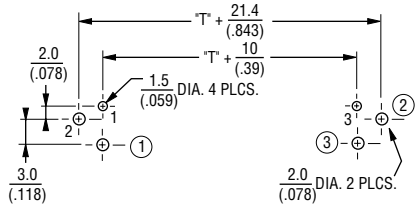


DIMENSIONS: MM / (INCHES)

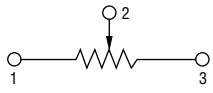
PDVxx-x2D



RECOMMENDED PCB LAYOUT

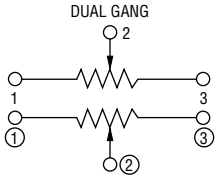


SINGLE GANG



SCHEMATIC

DUAL GANG



SCHEMATIC

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.
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Applications

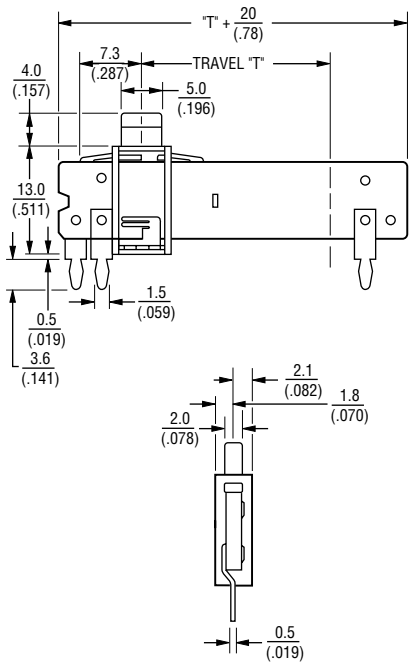
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PDV Series - Open Frame Slide Potentiometer

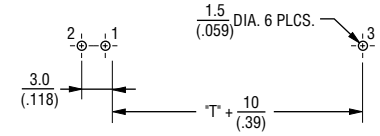
BOURNS®

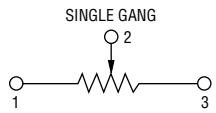
Product Dimensions

PDVxx-x1P

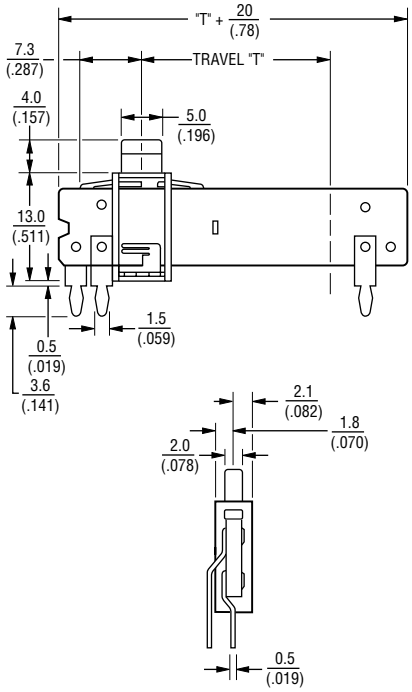


RECOMMENDED PCB LAYOUT

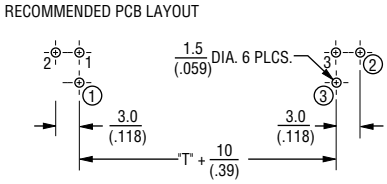


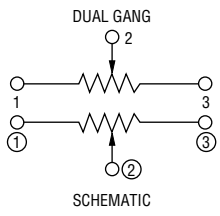


PDVxx-x2P

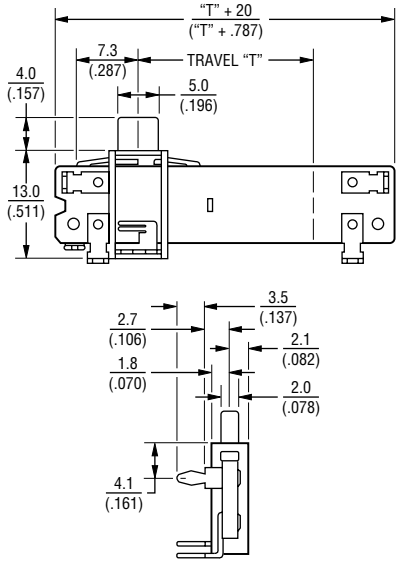


RECOMMENDED PCB LAYOUT

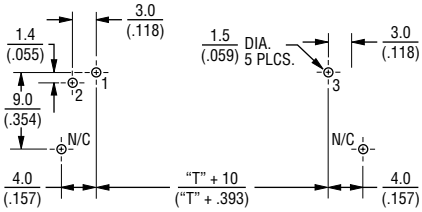


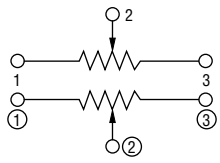


PDVxx-x1H



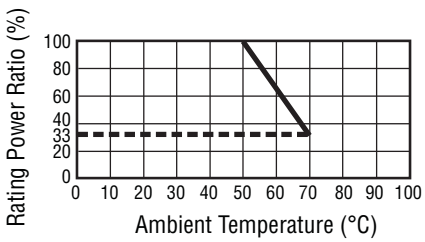
RECOMMENDED PCB LAYOUT





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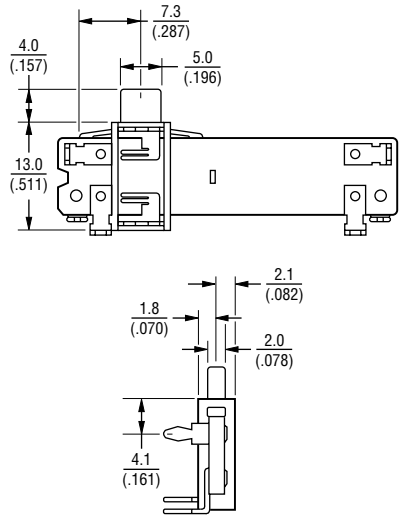
Derating Curve



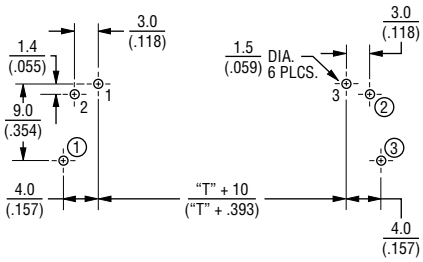
Specifications are subject to change without notice.
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Product Dimensions

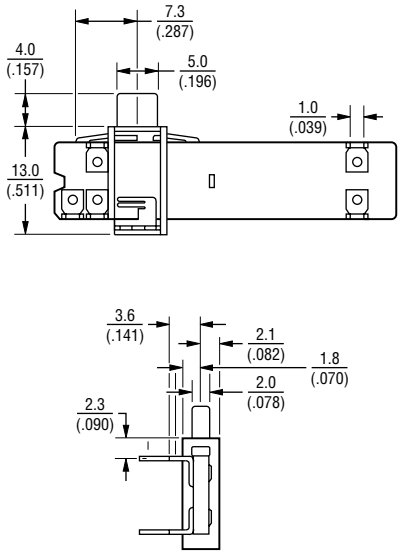
PDVxx-x2H



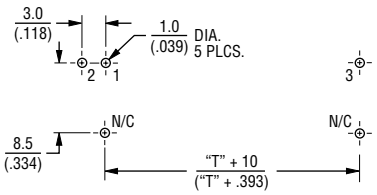
RECOMMENDED PCB LAYOUT



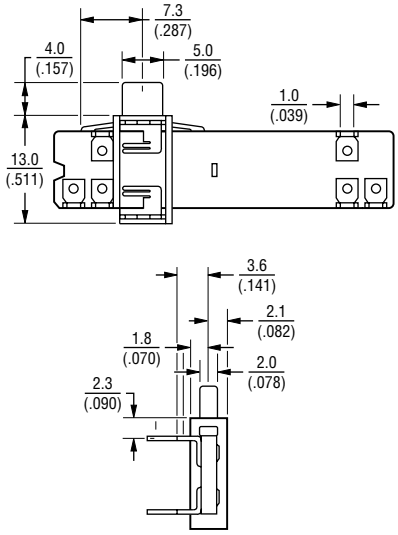
PDVxx-x1M



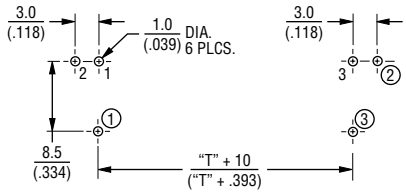
RECOMMENDED PCB LAYOUT



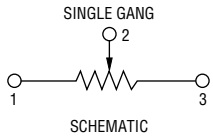
PDVxx-x2M

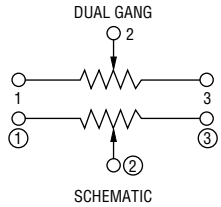


RECOMMENDED PCB LAYOUT



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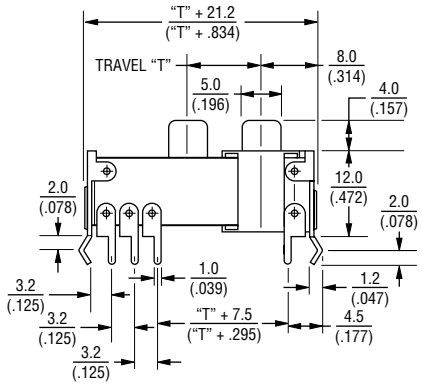


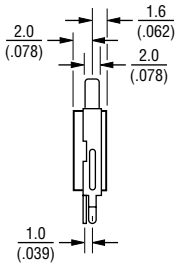


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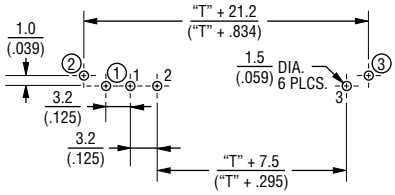
Product Dimensions

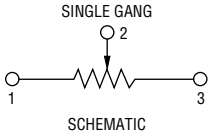
PDVxx-x2A



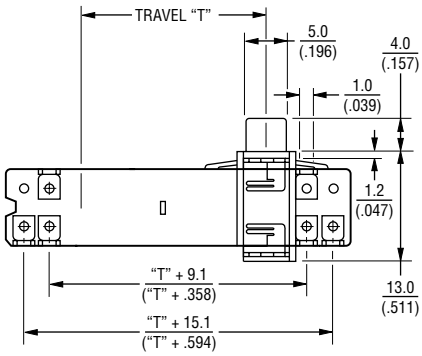


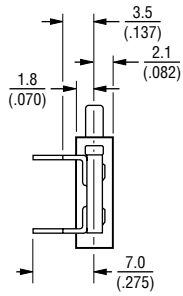
RECOMMENDED PCB LAYOUT



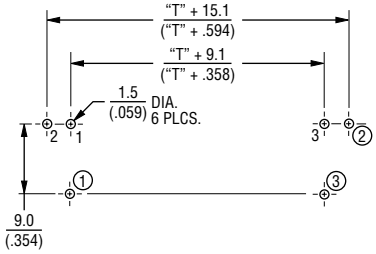


PDVxx-x2B



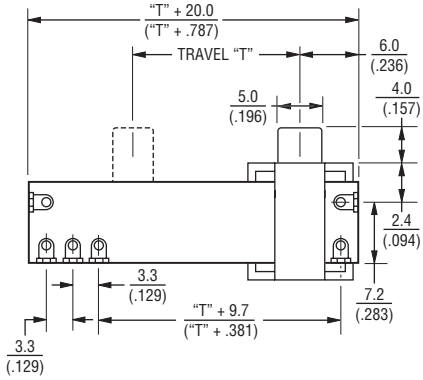


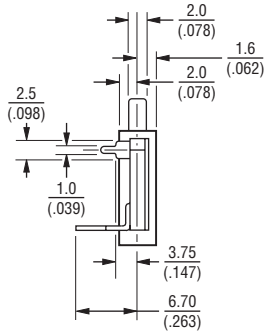
RECOMMENDED PCB LAYOUT



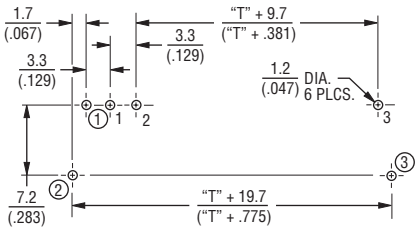
DIMENSIONS: MM / (INCHES)

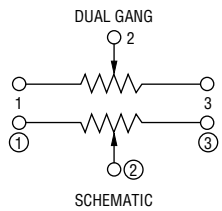
PDVxx-x2C





RECOMMENDED PCB LAYOUT





Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.