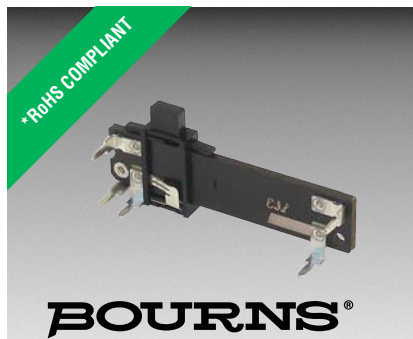




Features

- 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..... $\pm 20\%$
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)

- P = Vertical Pins
- M = Horizontal Pins

Resistance Code (See Table)

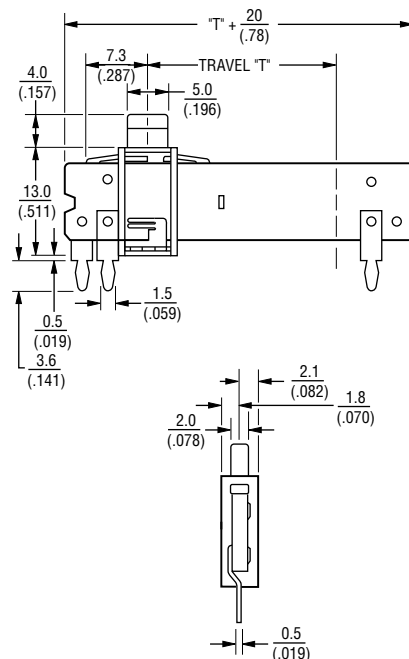
Resistance Taper

- A = Audio Taper
- B = Linear Taper

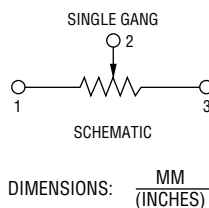
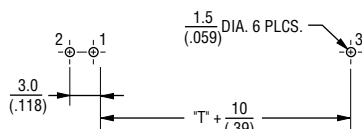
Other styles available.

Product Dimensions

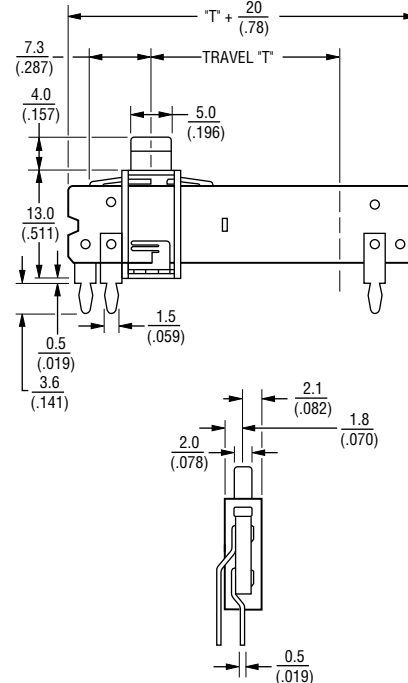
PDVxx-x1P



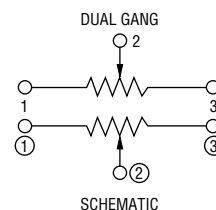
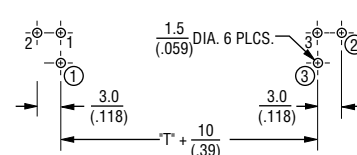
RECOMMENDED PCB LAYOUT



PDVxx-x2P



RECOMMENDED PCB LAYOUT



*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

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

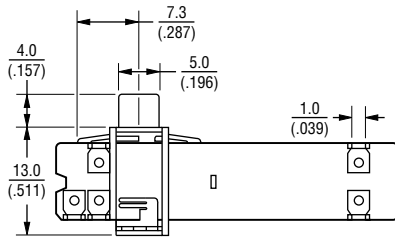
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PDV Series - Open Frame Slide Potentiometer

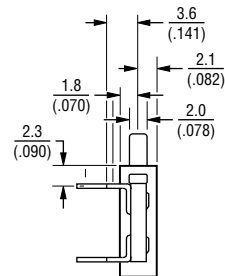
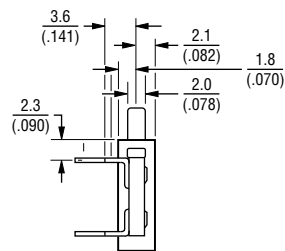
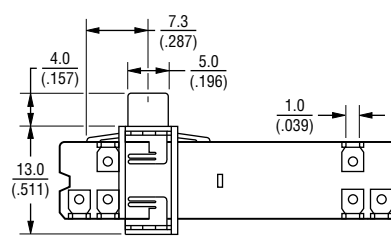
BOURNS®

Product Dimensions

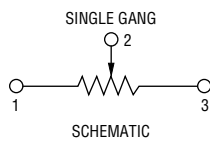
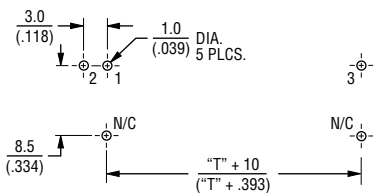
PDVxx-x1M



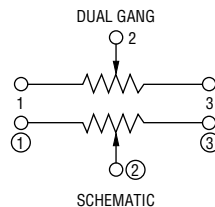
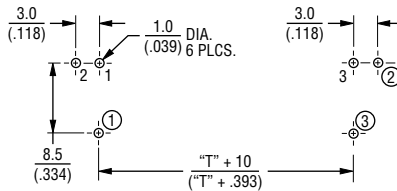
PDVxx-x2M



RECOMMENDED PCB LAYOUT



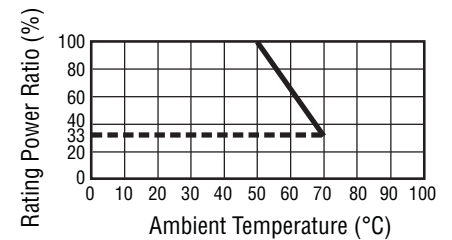
RECOMMENDED PCB LAYOUT



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

REV. 11/13

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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

PDV20-31P-103A	PDV20-32P-103B	PDV20-31P-103B	PDV20-32P-103A	PDV15-21M-103A	PDV30-21D-202B
PDV30-31D-202B	PDV20-21H-502A	PDV10-31P-104B	PDV20-31P-504A	PDV20-21P-504B	PDV30-21M-103B
PDV15-21H-103A	PDV20-21M-103A	PDV15-32P-104B	PDV15-22P-104B	PDV15-31P-102B	PDV15-21P-103A
PDV10-21P-103A	PDV30-31M-202B	PDV20-21M-202B	PDV30-21M-104B	PDV20-21P-203B	PDV20-32P-203B
PDV20-31P-203B	PDV20-32P-203A	PDV20-31P-203A	PDV30-21P-103A	PDV20-32P-502A	PDV20-31P-503A
PDV20-32P-502B	PDV20-31P-502B	PDV20-31P-502A	PDV20-32P-503A	PDV20-32P-503B	PDV20-31P-503B
PDV20-21D-103B	PDV10-21M-103B	PDV15-21M-203B	PDV10-21P-203B	PDV20-21P-104B	PDV20-31P-104B
PDV20-31P-104A	PDV30-21D-104B	PDV30-31P-103B	PDV30-21P-104A	PDV15-21D-102B	PDV15-31P-103B
PDV20-21H-202B	PDV20-31M-105A	PDV10-21H-203A	PDV20-21A-103B	PDV20-22A-103B	PDV30-21P-502B
PDV15-21M-104B	PDV20-21M-104B	PDV30-21B-104B	PDV30-21P-503A	PDV30-21P-503B	PDV15-21P-103B
PDV10-21M-204A	PDV30-32P-502B	PDV20-21P-103A	PDV20-21P-103B	PDV10-31M-503A	PDV30-31P-502B