

Features

- Carbon element
- Insulated shaft
- Wide variety of mounting styles
- Center detent option
- RoHS compliant*

Additional Information

Click these links for more information:





TECHNICAL







SELECTOR

PTV09 Series - 9 mm Potentiometer

Electrical Characteristics

Taper......Linear, audio Std. Resistance Range.....1 K Ω to 1 M Ω Standard Resistance Tolerance...... ± 20 % Residual Resistance

.....500 ohms or ± 1 % max.

Environmental Characteristics

Operating Temperature....-10 °C to +50 °C Power Rating (Linear and Audio)......0.05 watt Maximum Operating Voltage (Linear and Audio)...... 20 VDC, 50 VAC

Mechanical Characteristics

Mechanical Angle280 ° ±10 °
Rotational Torque10 to 100 g-cm
Detent Torque20 to 200 gf-cm
Stop Strength2 kg-cm min.
Rotational Life10,000 cycles
Soldering Condition

How To Order

PTV09A - 2 0 20 F - B 203

Model — Terminal Configuration – (Pin Layout)

- 1 = Horizontal/Rear Mount w/Sleeve Bushing
- 2 = Vertical/Side Mount, Bushingless, 10 mm Height
- 3 = Vertical/Side Mount, Bushingless, 6.5 mm Height
- 4 = Horizontal/Rear Mount, Bushingless
- 5 = Horizontal/Rear Mount w/Plastic Plain Bushing 6 = Horizontal/Rear Mount
- w/Metal Threaded
 Bushing
 7 = Vertical/Side Mount
- w/Sleeve Bushing, 6.5 mm Height
- 8 = Vertical/Side Mount w/Sleeve Bushing, 10 mm height

Option

0 = No Detent 2 = Center

Standard Shaft Length

15 = 15 mm** 25 = 25 mm
20 = 20 mm 30 = 30 mm

Shaft Style —

- F = Flat Type Insulated Shaft
- S = Insulated Knurled (18 Teeth)

U = Insulated Knurled (40 Teeth)

Resistance Taper
Taper Series followed by Curve Number

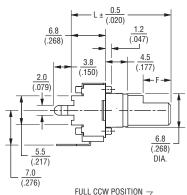
Resistance Code (See Table)

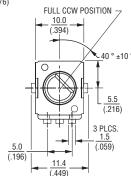
Other styles available.

** Bushingless version only.

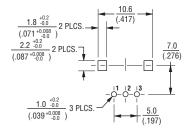
Product Dimensions

PTV09A-1 (Horizontal/Rear Mount w/Sleeve Bushing)



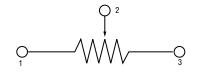


RECOMMENDED PCB LAYOUT (HORIZONTAL/REAR MOUNT)



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

Schematic

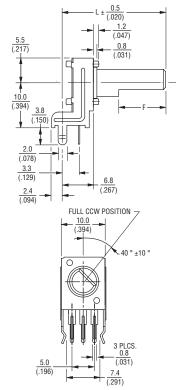


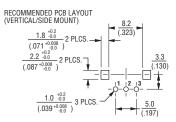


WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

PTV09A-2 (Vertical/Side Mount, Bushingless, 10 mm Height)





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

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Applications

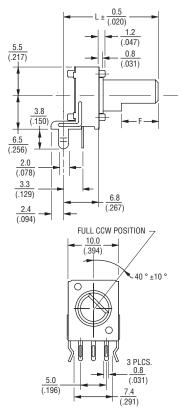
- Commercial communications equipment
- Portable electronics
- Amplifiers/mixers/drum machines/synthesizers
- Consumer goods
- Commercial appliances

PTV09 Series - 9 mm Potentiometer

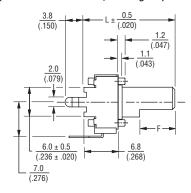
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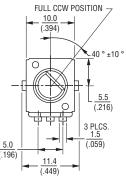
Product Dimensions (Continued)

PTV09A-3 (Vertical/Side Mount, Bushingless, 6.5 mm Height)



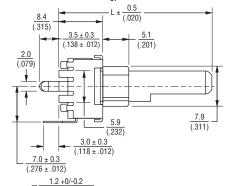
PTV09A-4 (Horizontal/Rear Mount, Bushingless)

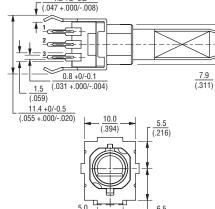




MM DIMENSIONS: (INCHES)

PTV09A-5 (Horizontal/Rear Mount w/Plastic Plain Bushing)

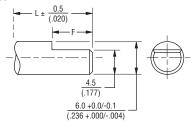




SHAFT SHOWN IN CENTER POSITION

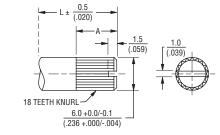
Shaft Styles



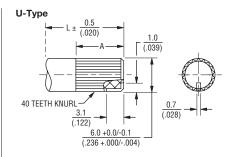


L	<u>15</u> (.591)	20 (.787)	<u>25</u> (.984)	30 (1.181)
F	<u>6</u> (.236)	7 (.275)	12 (.472)	<u>12</u> (.472)

S-Type



L	<u>15</u> (.591)	20 (.787)	25 (.984)	30 (1.181)
А	7 (.275)	7 (.275)	7 (.275)	7 (.275)



L	<u>15</u> (.591)	20 (.787)	25 (.984)	30 (1.181)
А	<u>6</u> (.236)	<u>7</u> (.275)	7 (.275)	<u>7</u> (.275)

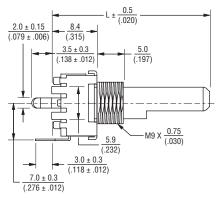
Specifications are subject to change without notice.

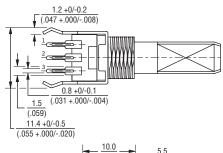
PTV09 Series - 9 mm Potentiometer

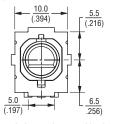
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Product Dimensions (Continued)

PTV09A-6 (Horizontal/Rear Mount w/Metal Threaded Bushing)

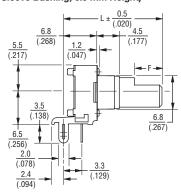


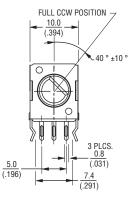




SHAFT SHOWN IN CENTER POSITION

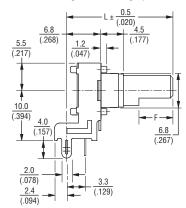
PTV09A-7 (Vertical/Side Mount w/Sleeve Bushing, 6.5 mm Height)

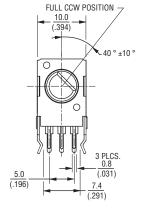




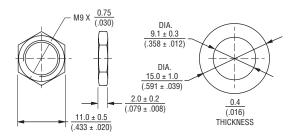
MM DIMENSIONS: (INCHES)

PTV09A-8 (Vertical/Side Mount w/Sleeve Bushing, 10 mm Height)





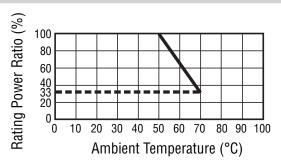
Mounting Hardware



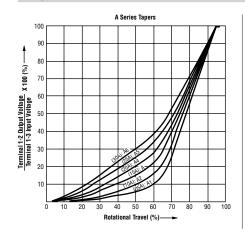
PTV09 Series - 9 mm Potentiometer

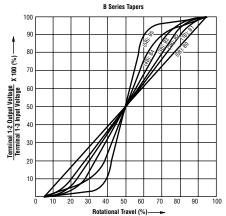
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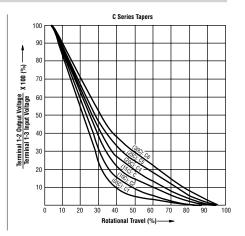
Derating Curve



Tapers







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