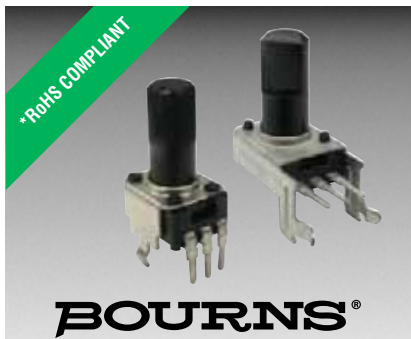




Features

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



PTV09 Series - 9 mm Potentiometer

Electrical Characteristics

Taper.....Linear, audio
Standard Resistance Range
.....1 K ohms to 1 M ohms
Standard Resistance Tolerance..... $\pm 20\%$
Residual Resistance
.....500 ohms or $\pm 1\%$ max.

Environmental Characteristics

Operating Temperature..... -10°C to $+50^\circ\text{C}$
Power Rating
(Linear and Audio).....0.05 watt
Maximum Operating Voltage
(Linear and Audio).....20 VDC, 50 VAC
Sliding Noise100 mV max.

Mechanical Characteristics

Mechanical Angle $280^\circ \pm 10^\circ$
Rotational Torque10 to 100 g-cm
Detent Torque20 to 200 gf-cm
Stop Strength2 kg-cm min.
Rotational Life10,000 cycles
Soldering Condition
..... 300°C max. within 3 seconds
HardwareOne flat washer and one
hex nut supplied with bushing version

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

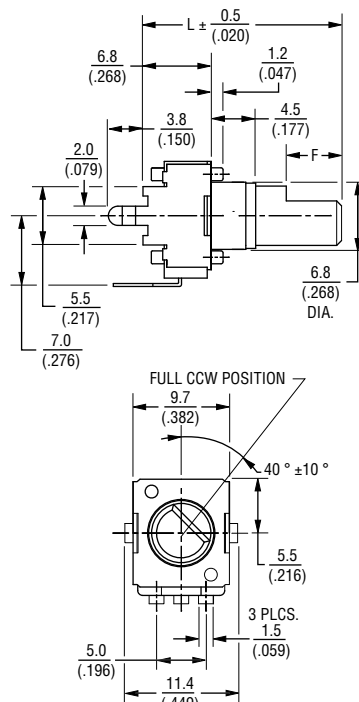
Resistance Code (See Table) _____

Other styles available.

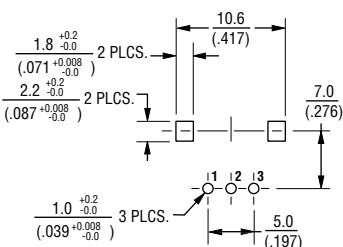
** Bushingless version only.

Product Dimensions

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

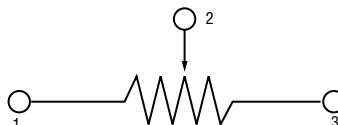


RECOMMENDED PCB LAYOUT
(HORIZONTAL/REAR MOUNT)

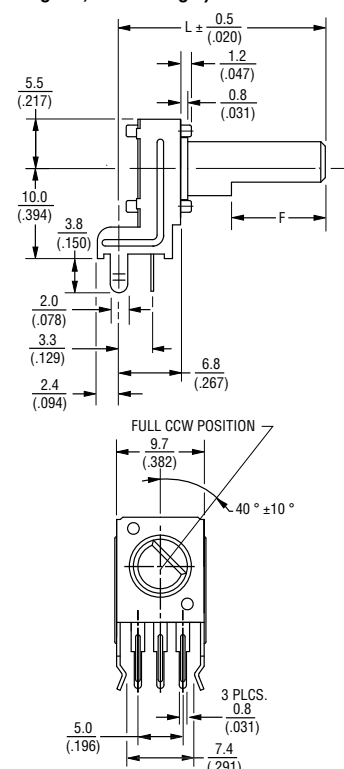


DIMENSIONS: MM
(INCHES)

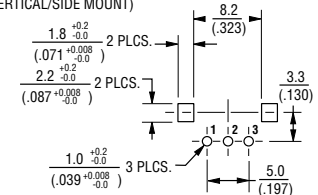
Schematic



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



RECOMMENDED PCB LAYOUT
(VERTICAL/SIDE MOUNT)



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

WARNING
Cancer and
Reproductive Harm

www.P65Warnings.ca.gov

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

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Applications

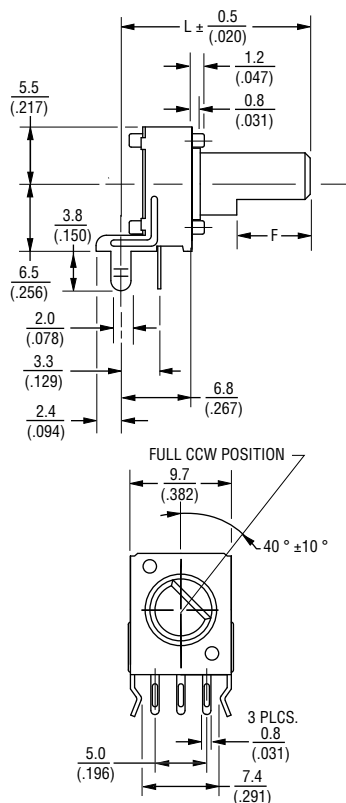
- Commercial communications equipment
- Portable electronics
- Amplifiers/mixers/drum machines/synthesizers
- Consumer goods
- Commercial appliances

PTV09 Series - 9 mm Potentiometer

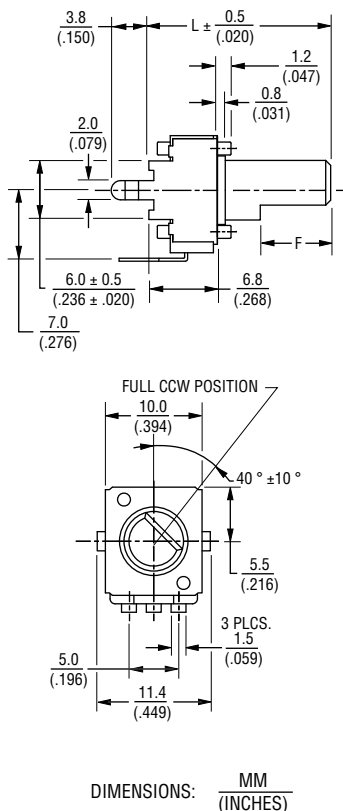
BOURNS®

Product Dimensions (Continued)

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

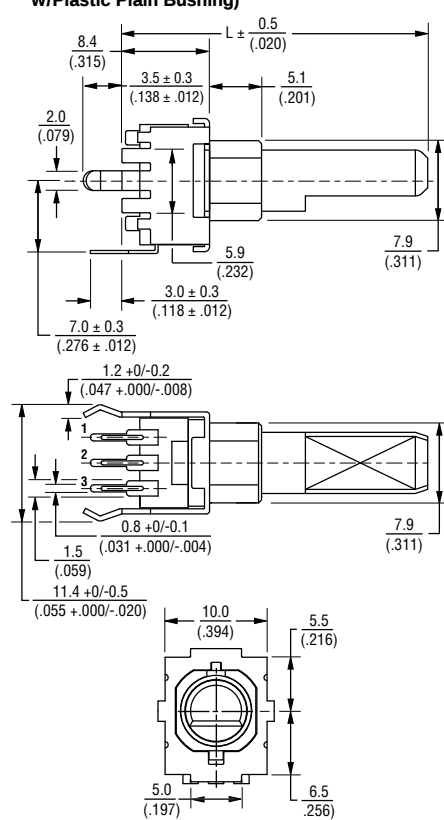


PTV09A-4
(Horizontal/Rear Mount, Bushingless)



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

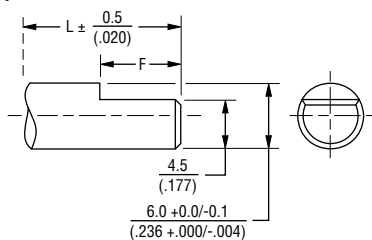
PTV09A-5
(Horizontal/Rear Mount
w/Plastic Plain Bushing)



SHAFT SHOWN IN CENTER POSITION

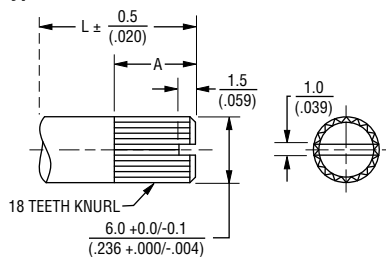
Shaft Styles

F-Type



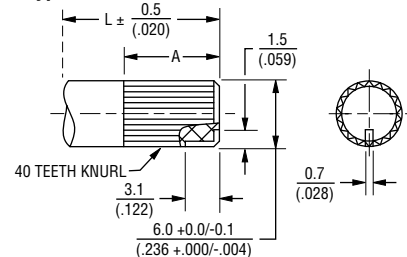
L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	6 (.236)	7 (.275)	12 (.472)	12 (.472)

S-Type



L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
A	7 (.275)	7 (.275)	7 (.275)	7 (.275)

U-Type



L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
A	6 (.236)	7 (.275)	7 (.275)	7 (.275)

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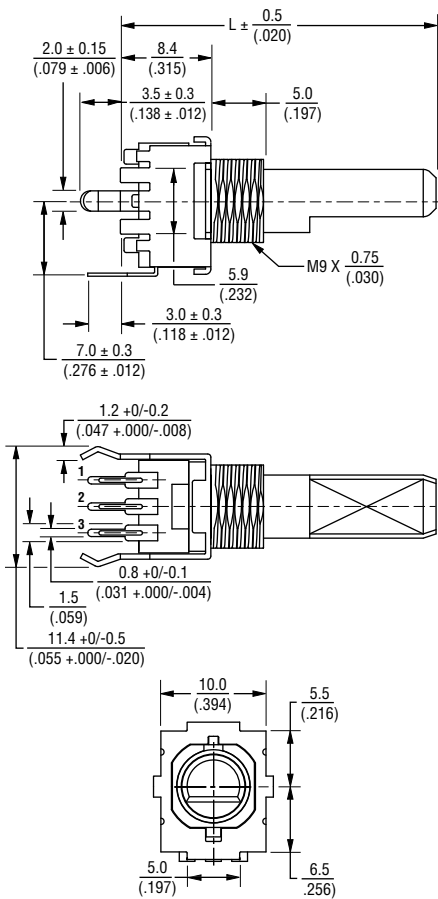
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PTV09 Series - 9 mm Potentiometer

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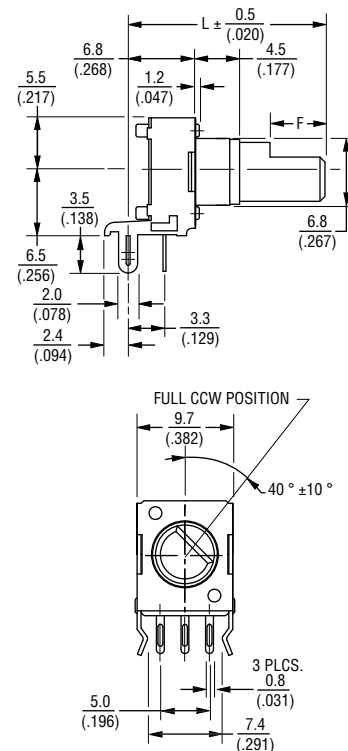
Product Dimensions (Continued)

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



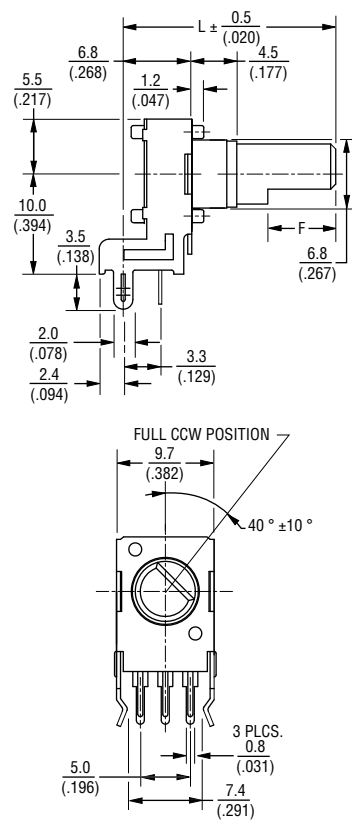
SHAFT SHOWN IN CENTER POSITION

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

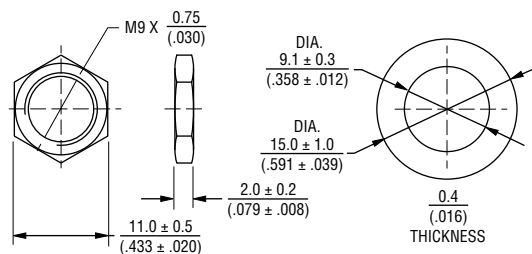


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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



Mounting Hardware



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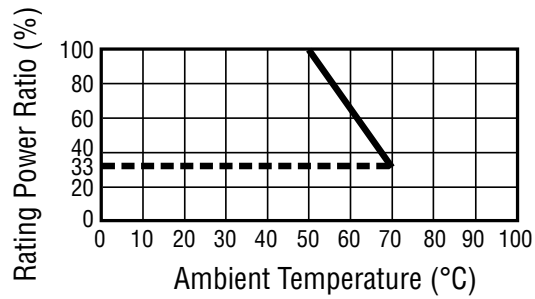
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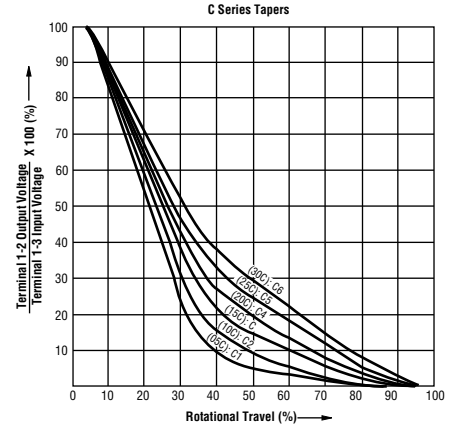
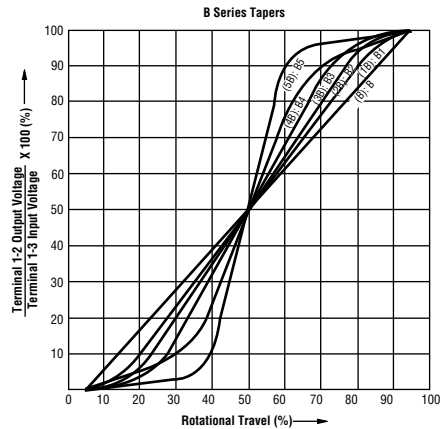
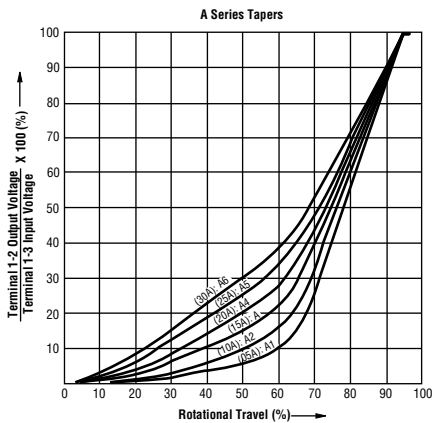
PTV09 Series - 9 mm Potentiometer

BOURNS®

Derating Curve



Tapers



BOURNS®

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