



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 Noise 100 mV max.

Mechanical Characteristics

Mechanical Angle $280^\circ \pm 10^\circ$
Rotational Torque 10 to 100 g-cm
Detent Torque 20 to 200 gf-cm
Stop Strength 2 kg-cm min.
Rotational Life 10,000 cycles
Soldering Condition
..... 300°C max. within 3 seconds
Hardware One 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,
Bushingsless,
10 mm Height
3 = Vertical/Side Mount,
Bushingsless,
6.5 mm Height
4 = Horizontal/Rear Mount,
Bushingsless
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) _____

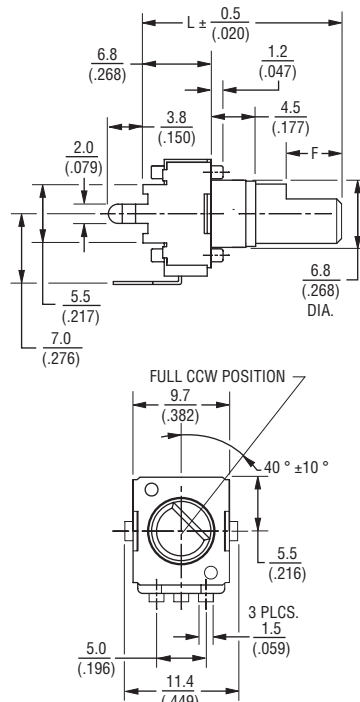
Other styles available.

** Bushingsless version only.

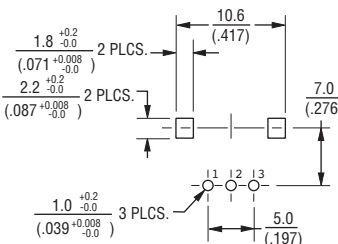
Product Dimensions

PTV09A-1

(Horizontal/Rear Mount w/Sleeve Bushing)

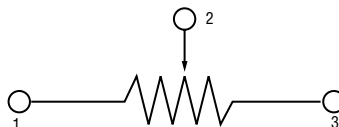


RECOMMENDED PCB LAYOUT
(HORIZONTAL/REAR MOUNT)



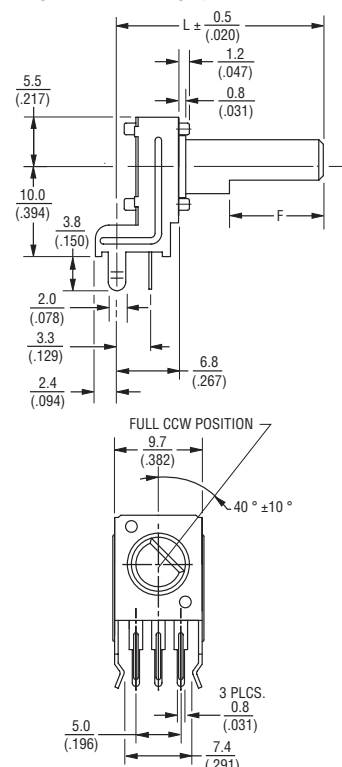
DIMENSIONS: MM
(INCHES)

Schematic

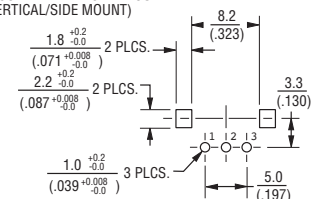


PTV09A-2

(Vertical/Side Mount,
Bushingsless, 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

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

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

Applications

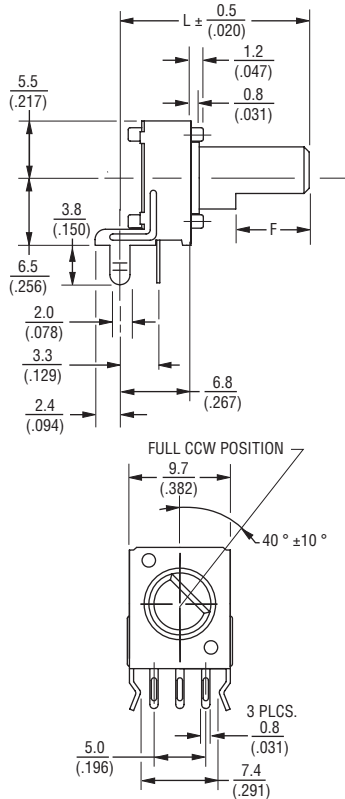
- Commercial communications equipment
- Portable electronics
- Amplifiers/mixers/drum machines/synthesizers
- Consumer goods
- Commercial appliances

PTV09 Series - 9 mm Potentiometer

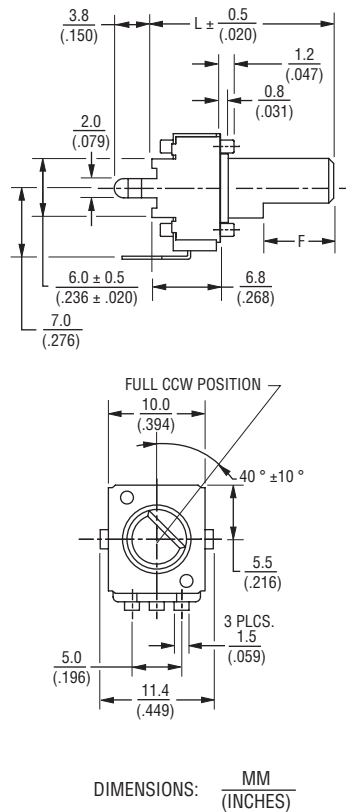
BOURNS®

Product Dimensions (Continued)

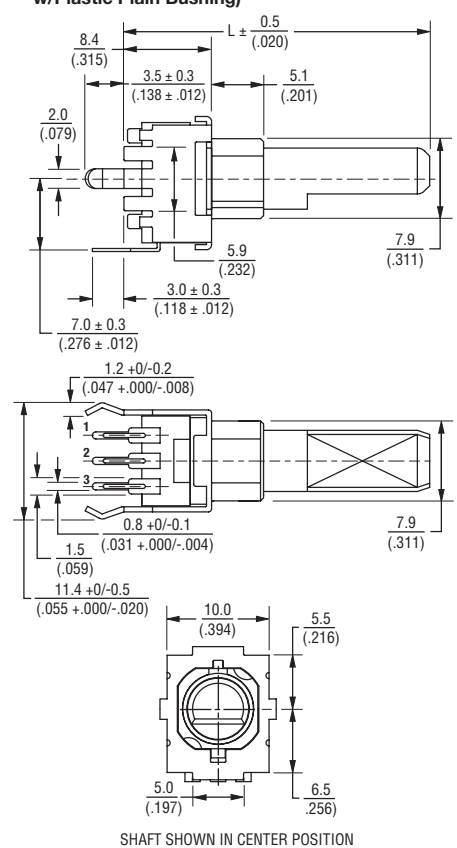
PTV09A-3
(Vertical/Side Mount,
Bushings, 6.5 mm Height)



PTV09A-4
(Horizontal/Rear Mount, Bushingless)

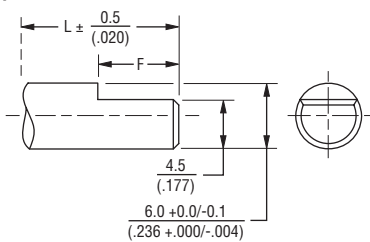


PTV09A-5
(Horizontal/Rear Mount
w/Plastic Plain Bushing)



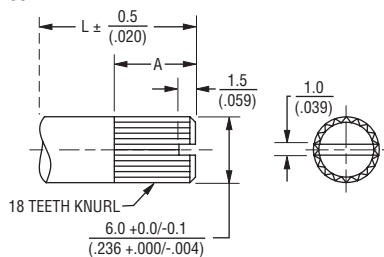
Shaft Styles

F-Type



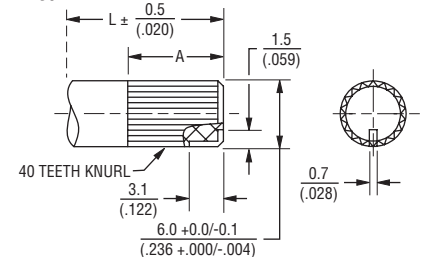
L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	6 (.236)	7 (.275)	12 (.472)	12 (.472)

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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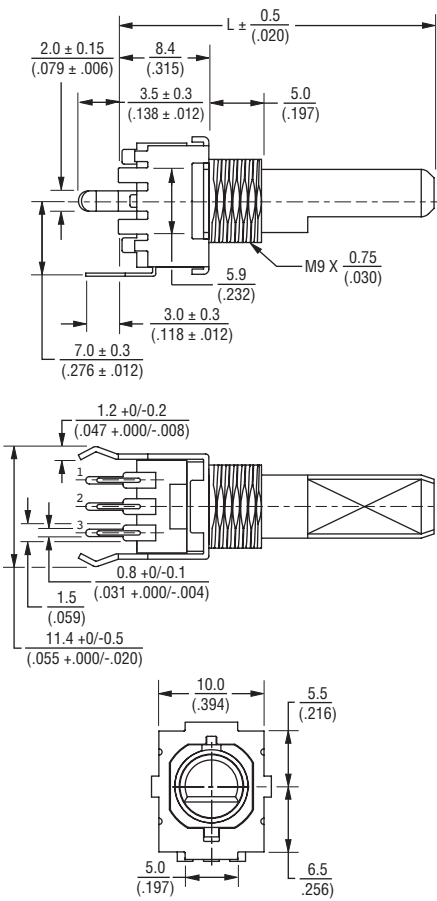
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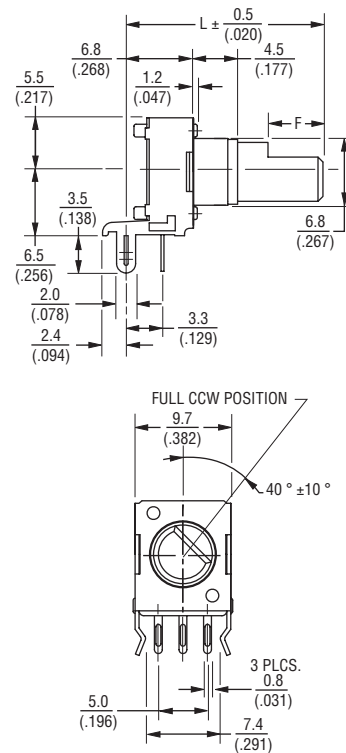
Product Dimensions (Continued)

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



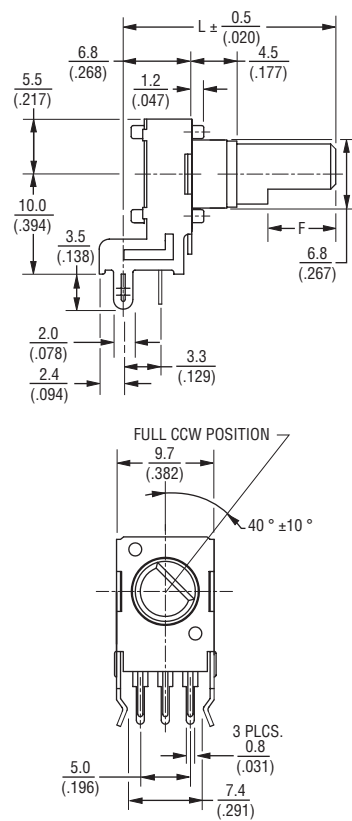
SHAFT SHOWN IN CENTER POSITION

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

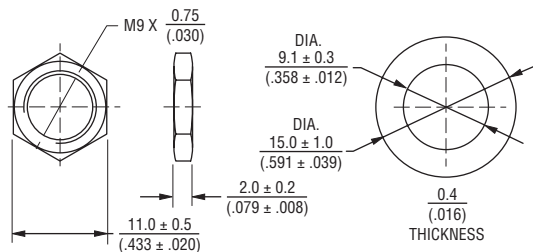


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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



Mounting Hardware



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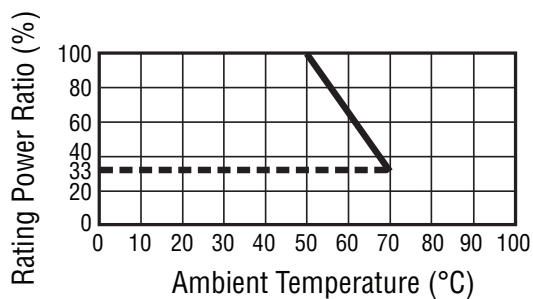
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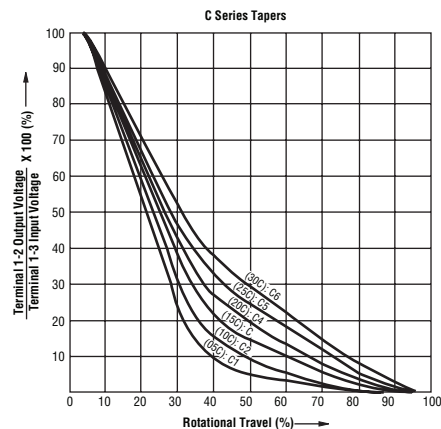
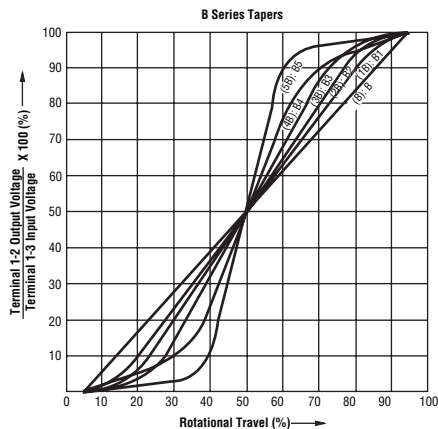
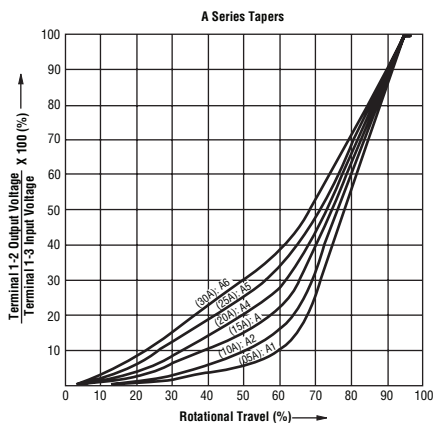
PTV09 Series - 9 mm Potentiometer

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Derating Curve



Tapers



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