



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

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PTV09 Series - 9 mm Potentiometer

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

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
Sliding Noise 100 mV max.
IP Rating IP40

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
300 °C max. within 3 seconds
 Hardware One flat washer and one
 hex nut supplied with bushing version

PTV09A - 2 0 20 F - B 203

Model _____

Terminal Configuration _____
(Pin Layout)

1 = Horizontal/Rear Mount
w/Sleeve Bushing

2 = Vertical/Side Mount,
Bushingleess,
10 mm Height

3 = Vertical/Side Mount,
Bushingleess,
6.5 mm Height

4 = Horizontal/Rear Mount,
Bushingleess

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 _____

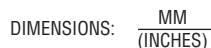
F = Flat Type Insulated Shaft

S = Insulated Knurled (18 Te

U = Insulated Knurled (40 Te

Resistance Code (See Table)
Other styles available.
** Bushingless version only.

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



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

[illegible]

CRITICAL/SIDE MOUNT

1.8^{+0.2}_{-0.0} 2 PLCS. (0.071^{+0.008}_{-0.0})

2.2^{+0.2}_{-0.0} 2 PLCS. (0.087^{+0.008}_{-0.0})

1.0^{+0.2}_{-0.0} 3 PLCS. (0.039^{+0.008}_{-0.0})

8.2 (0.323)

3.3 (0.130)

5.0 (0.197)

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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Applications

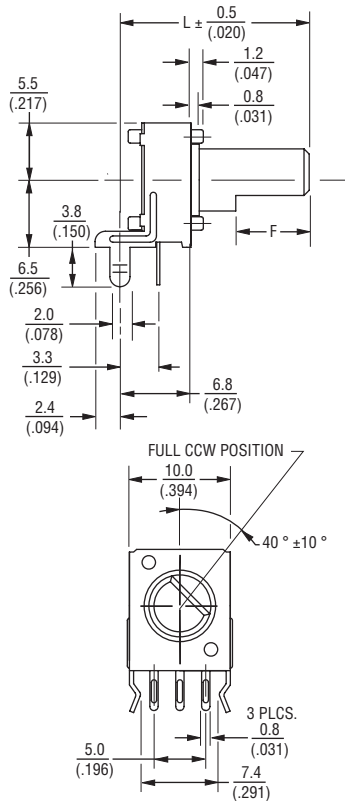
- Commercial communications equipment
- Portable electronics
- Amplifiers/mixers/drum machines/synthesizers
- Consumer goods
- Commercial appliances

PTV09 Series - 9 mm Potentiometer

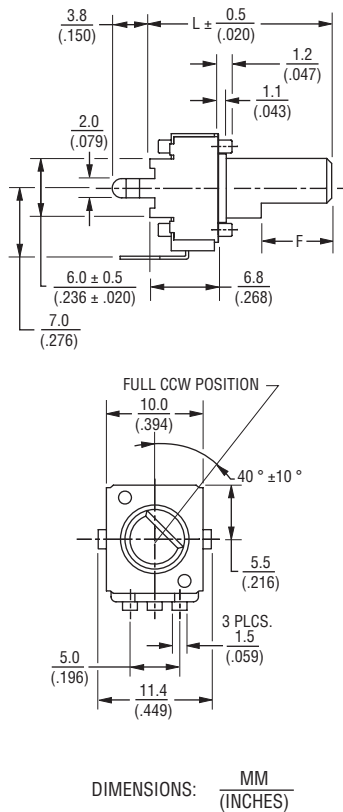
BOURNS®

Product Dimensions (Continued)

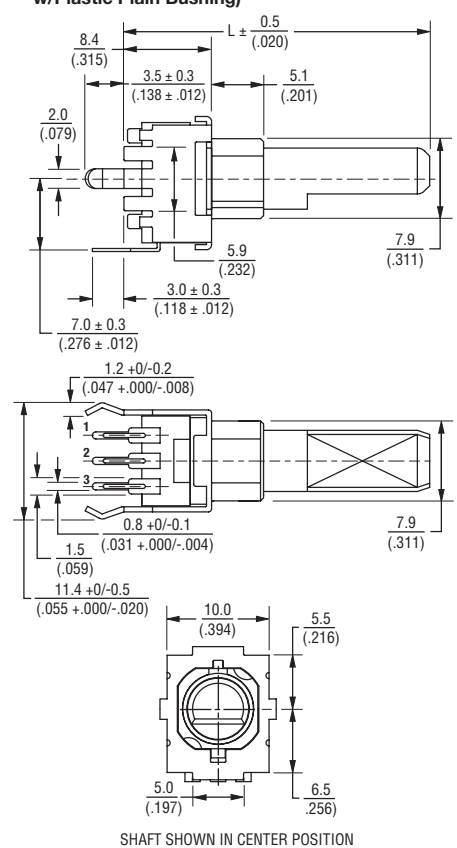
PTV09A-3
(Vertical/Side Mount,
Bushings, 6.5 mm Height)



PTV09A-4
(Horizontal/Rear Mount, Bushingless)

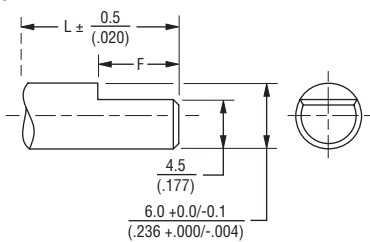


PTV09A-5
(Horizontal/Rear Mount
w/Plastic Plain Bushing)



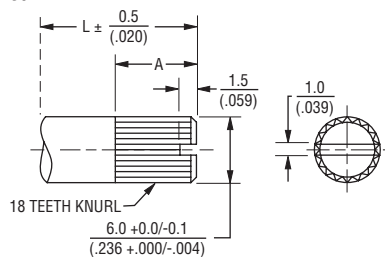
Shaft Styles

F-Type



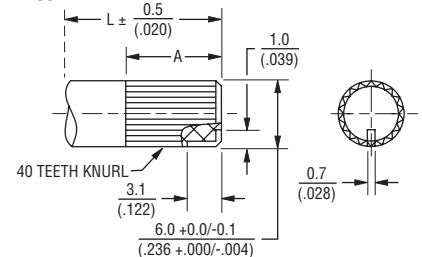
L	15 (.591)	20 (.787)	25 (.984)	30 (1.181)
F	6 (.236)	7 (.275)	12 (.472)	12 (.472)

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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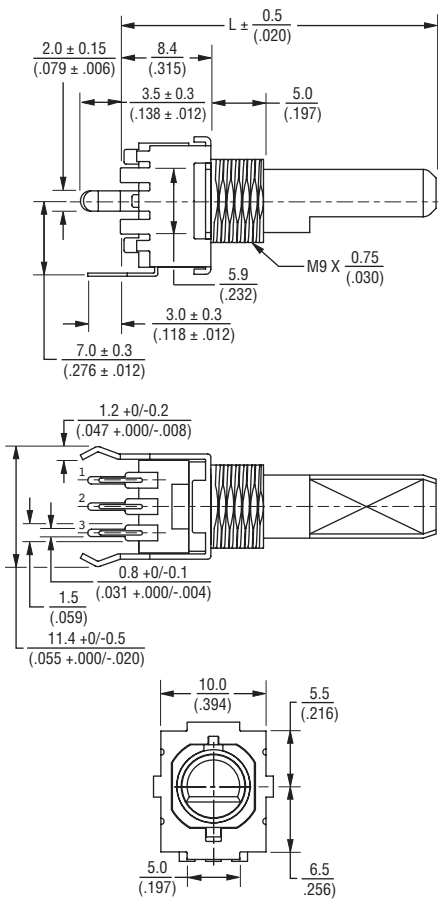
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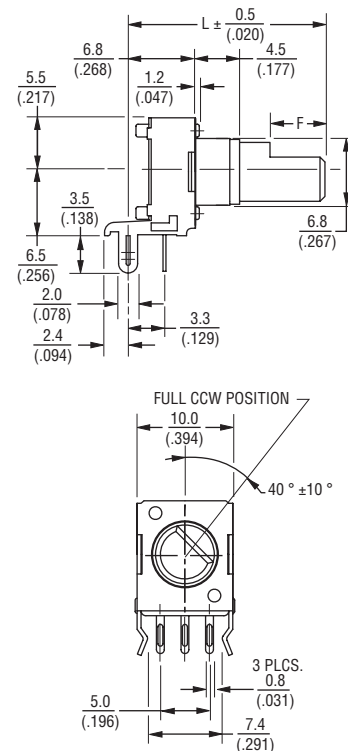
Product Dimensions (Continued)

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



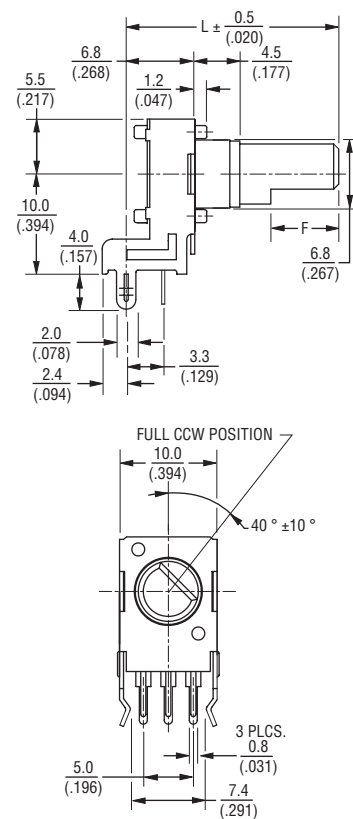
SHAFT SHOWN IN CENTER POSITION

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

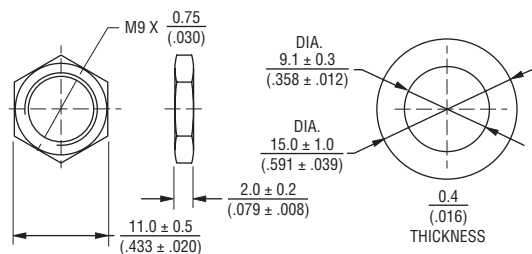


DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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



Mounting Hardware



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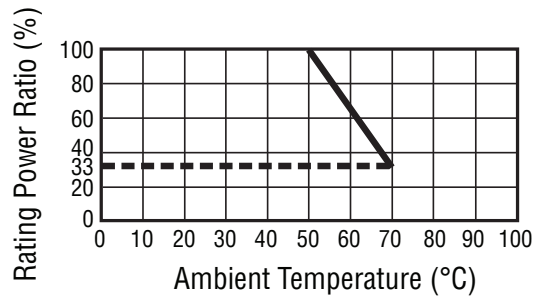
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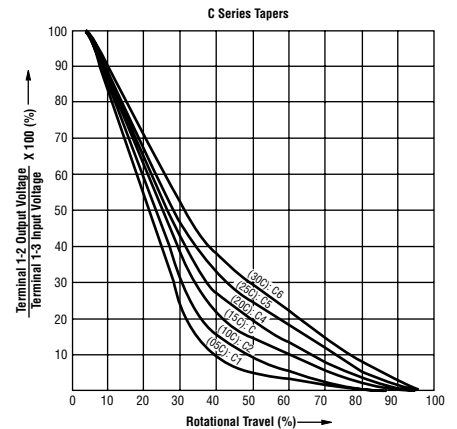
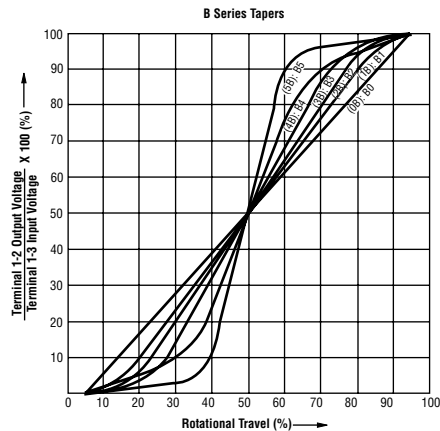
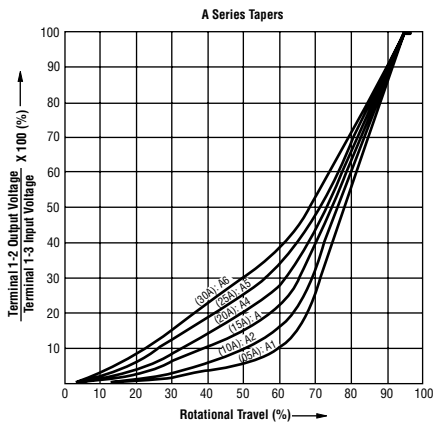
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Derating Curve



Tapers



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Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

Europe: Tel: +36 88 885 877 • Email: eurocus@bourns.com

Mexico: Tel: +52 614 478 0400 • Email: mexicus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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