

Features

- Carbon element
- Insulated shaft
- Snap-in clip
- Center detent option
- RoHS compliant*



PTV09 Series - 9 mm Potentiometer

Electrical Characteristics

Taper.....Linear, audio Standard Resistance Range1 K ohms to 1 M ohms

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

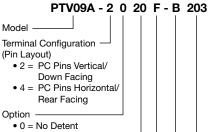
(Linear and Audio) 20 VDC, 50 VAC Sliding Noise 100 mV max.

Mechanical Characteristics

Mechanical Angle280 ° ±5 ° Rotational Torque10 to 100 g-cm Detent Torque40 to 200 g-cm Stop Strength 2 kg-cm min. Rotational Life 10,000 cycles Soldering Condition

......300 °C max. within 3 seconds Hardware No hardware supplied

How To Order



- 2 = Center

Standard Shaft Length

- 15 = 15 mm • 20 = 20 mm
- 25 = 25 mm
- 30 = 30 mm

Shaft Style

- F = Flat Type Insulated Shaft
- S = Insulated Knurled (18 Teeth)
- U = Insulated Knurled (40 Teeth)

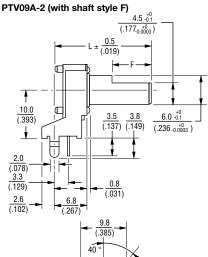
Resistance Taper

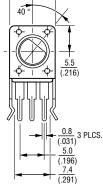
- A = Audio Taper
- B = Linear Taper

Resistance Code (See Table)

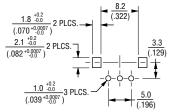
Other styles available.

Product Dimensions





RECOMMENDED PCB LAYOUT



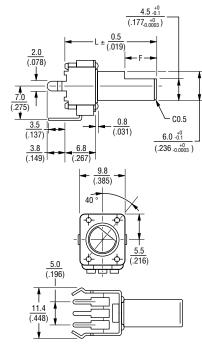
SHAFT SHOWN IN CCW POSITION

F-Type Shaft

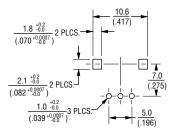
L	15	<u>20</u>	25	30
	(.591)	(.787)	(.984)	(1.181)
F	<u>6</u> (.236)	7 (.275)	12 (.472)	12 (.472)

DIMENSIONS: (INCHES)

PTV09A-4 (with shaft style F)



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

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

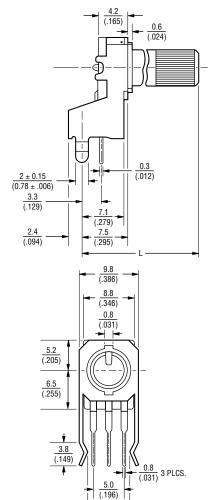
Applications

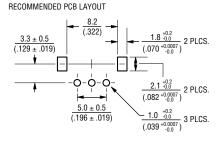
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PTV09 Series - 9 mm Potentiometer

BOURNS®

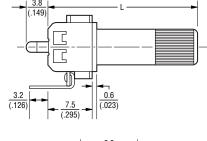
Product Dimensions PTV09A-2 (with shaft style U)

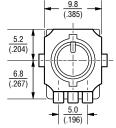




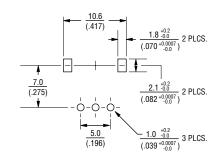
(.307)

PTV09A-4 (with shaft style U)



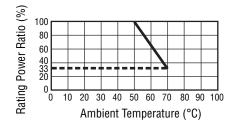


RECOMMENDED PCB LAYOUT

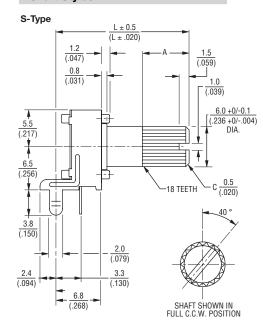


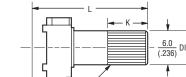
DIMENSIONS: (INCHES)

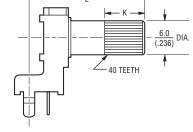
Derating Curve



Shaft Styles







S-Type Shaft

U-Type

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

U-Type Shaft

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