

Features

- Carbon element
- Insulated shaft
- Snap-in clip
- Center detent
- Center tap option
- Assorted pin layouts
- Dual gang option
- Various taper options

PTV/PTT Series - 12 mm Potentiometer

Electrical Characteristics

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

Environmental Characteristics

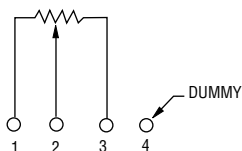
Operating Temperature
 -10°C to $+50^{\circ}\text{C}$
 Power Rating..... 0.05 Watt
 Maximum Operating Voltage
 50 V AC, 20 V DC
 Sliding Noise 100 mV max.

Mechanical Characteristics

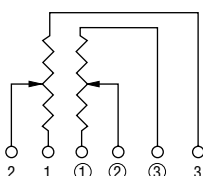
Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$
 Rotational Torque 20 to 200 g-cm
 Detent Torque..... 30 to 300 g-cm
 Stop Strength
 no bushing 3 kg-cm min.
 with bushing..... 3 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 300°C max. within 3 seconds
 Hardware One flat washer and
 mounting nut supplied per
 potentiometer with bushing

Electrical Diagrams

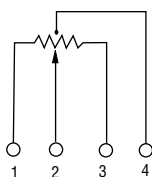
MODEL PTV 111



MODEL PTV 112

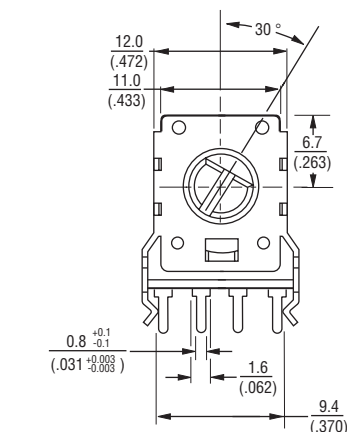
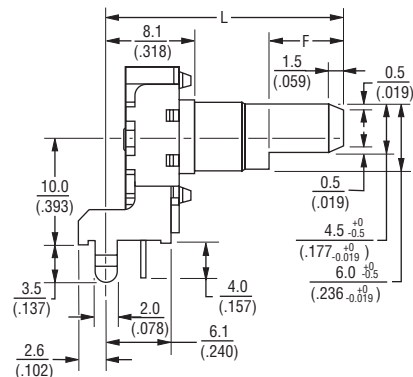


MODEL PTT 111

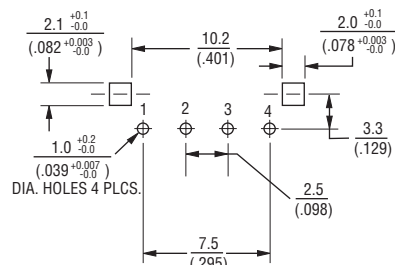


Product Dimensions

PTV111-2

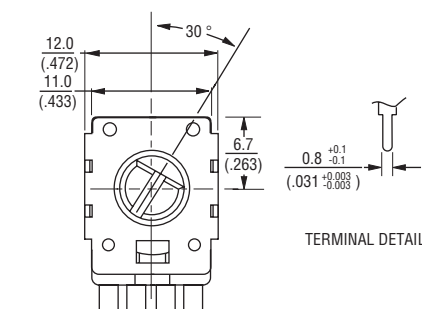
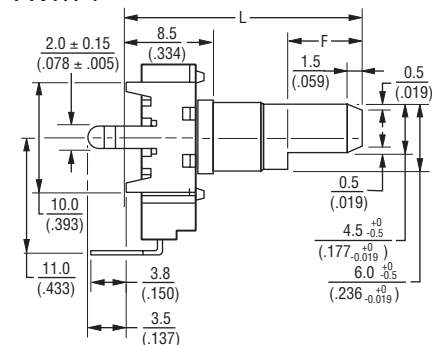


RECOMMENDED PCB LAYOUT

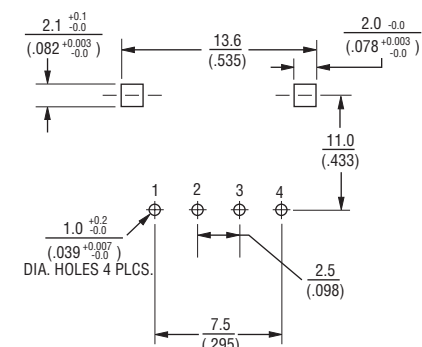


SHAFT SHOWN IN CCW POSITION

PTV111-4



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

Dimensions Without Bushing

L	15 (.591)	20 (.787)	22.5 (.886)	25 (.984)	27.5 (1.083)
F	4.5 (.177)	7 (.276)	7 (.276)	12 (.472)	12 (.472)

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

Applications

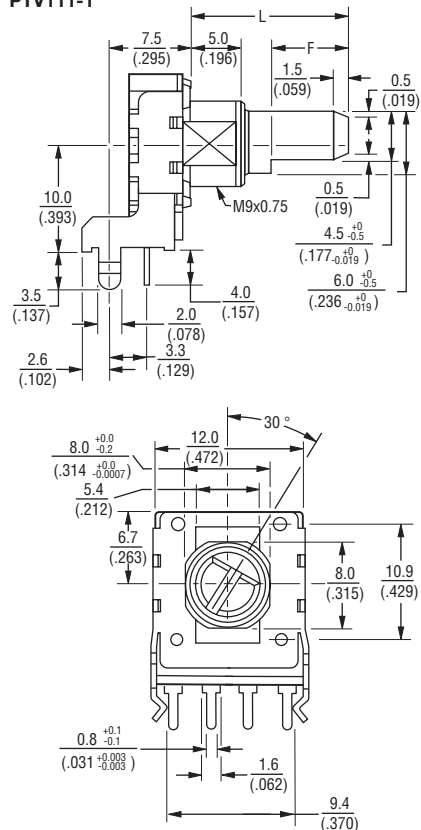
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PTV/PTT Series - 12 mm Potentiometer

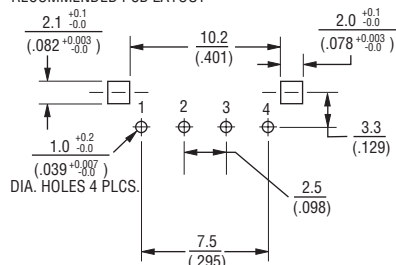
BOURNS®

Product Dimensions

PTV111-1

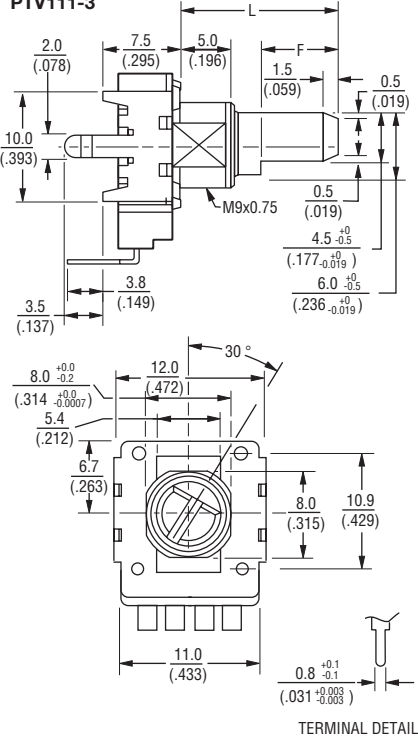


RECOMMENDED PCB LAYOUT

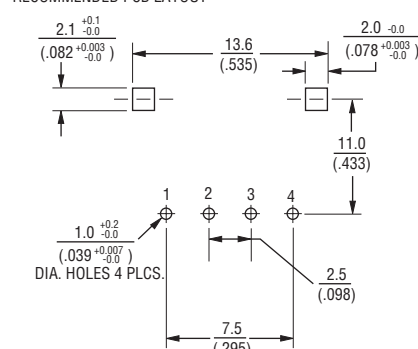


SHAFT SHOWN IN CCW POSITION

PTV111-3

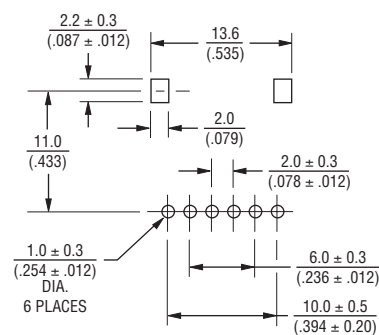
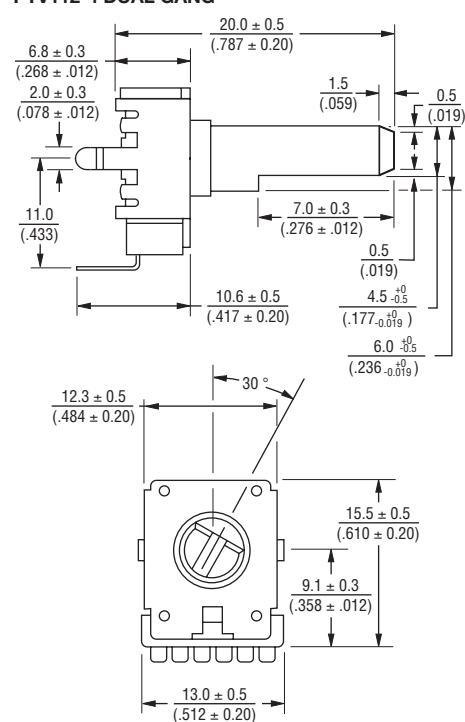


RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

PTV112-4 DUAL GANG



SHAFT SHOWN IN CCW POSITION

Dimensions Without Bushing

L	12.5 (.492)	15 (.591)	17.5 (.689)	20 (.787)
F	7 (.276)	7 (.276)	12 (.472)	12 (.472)

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

PTV/PTT Series - 12 mm Potentiometer

BOURNS®

How To Order

PTV111 - 2 4 20 A - A1 104

Model _____

(See Diagrams)

- PTV111 Standard
- PTT111 With Tap
- PTV112 Dual Gang

Pin Style _____

PC Pins vertical/

Down Facing:

- 1 = With Bushing
- 2 = No Bushing

PC Pins horizontal/

Rear Facing:

- 3 = With Bushing
- 4 = No Bushing

Center Detent Option _____

- 4 = No Detent
- 2 = Center Detent

Standard Shaft Length _____

- 12 = 12.5 mm*
- 15 = 15 mm
- 17 = 17.5 mm*
- 20 = 20 mm
- 22 = 22.5 mm**
- 25 = 25 mm**
- 27 = 27.5 mm**

Shaft Styles _____

- A = Flat Type Insulated Shaft

Resistance Taper (See Taper Chart) _____

Taper Series followed by Curve Number

Resistance Code (See Table) _____

Other styles available.

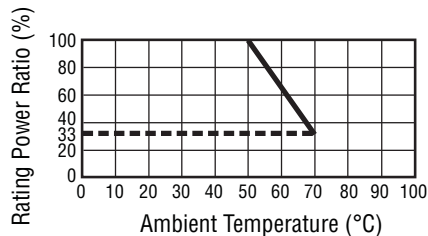
* Available with Pin Styles 1 & 3 only.

**Available with Pin Styles 2 & 4 only.

Standard Resistance Table

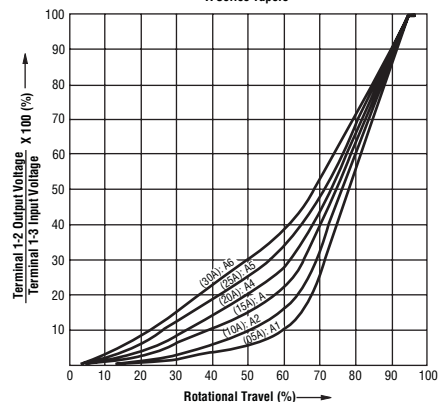
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Derating Curve

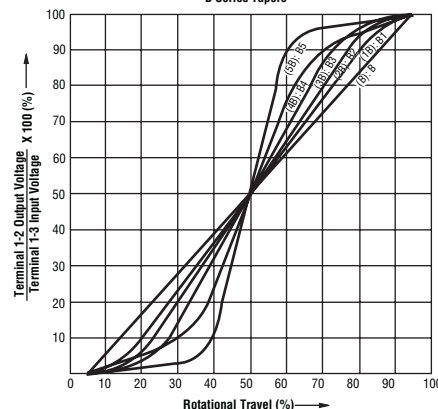


Tapers

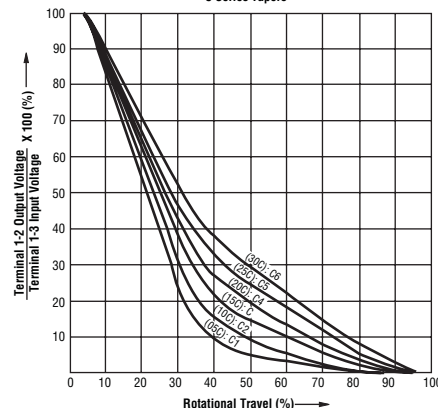
A Series Tapers



B Series Tapers



C Series Tapers



REV. 07/10

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.