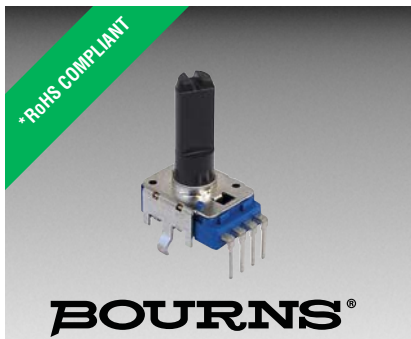




Features

- 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

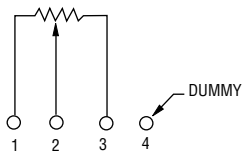
Operating Temperature
 -10°C to $+50^{\circ}\text{C}$
 Power Rating 0.05 Watt
 Maximum Operating Voltage
 50 V AC, 20 V DC
 Sliding Noise 100 mV max.

Mechanical Characteristics

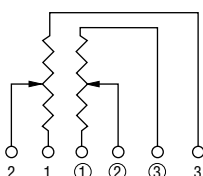
Mechanical Angle..... $300^{\circ} \pm 5^{\circ}$
 Rotational Torque 20 to 200 g-cm
 Detent Torque 30 to 300 g-cm
 Stop Strength
 no bushing 3 kg-cm min.
 with bushing..... 3 kg-cm min.
 Rotational Life 15,000 cycles
 Soldering Condition
 300°C max. within 3 seconds
 Hardware One flat washer and
 mounting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

Electrical Diagrams

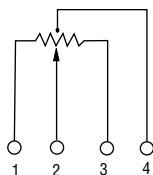
MODEL PTV 111



MODEL PTV 112

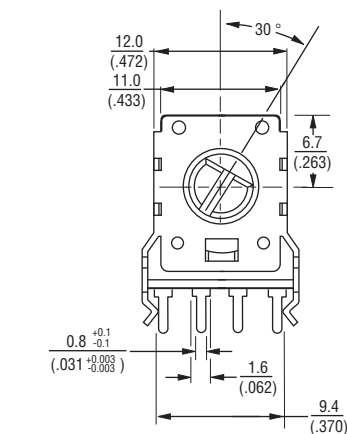
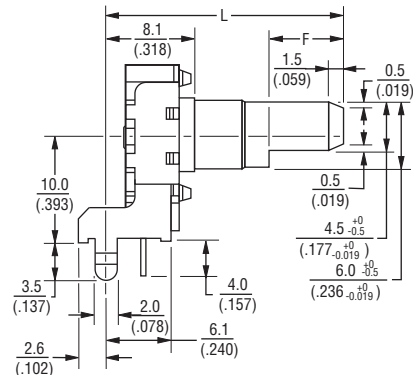


MODEL PTT 111

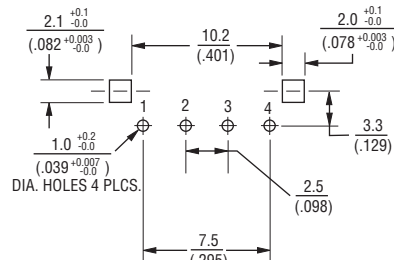


Product Dimensions

PTV111-2



RECOMMENDED PCB LAYOUT

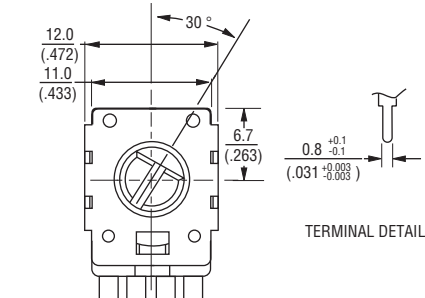
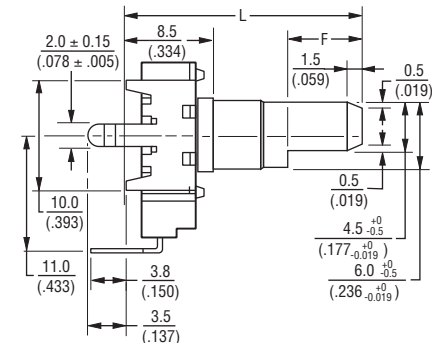


SHAFT SHOWN IN CCW POSITION

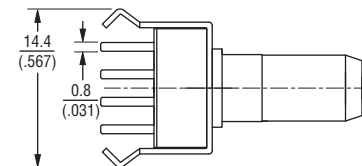
Dimensions Without Bushing

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)

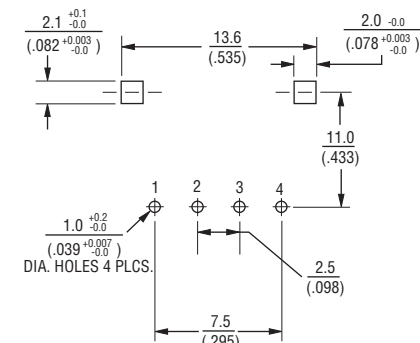
PTV111-4



TERMINAL DETAIL



RECOMMENDED PCB LAYOUT



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

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

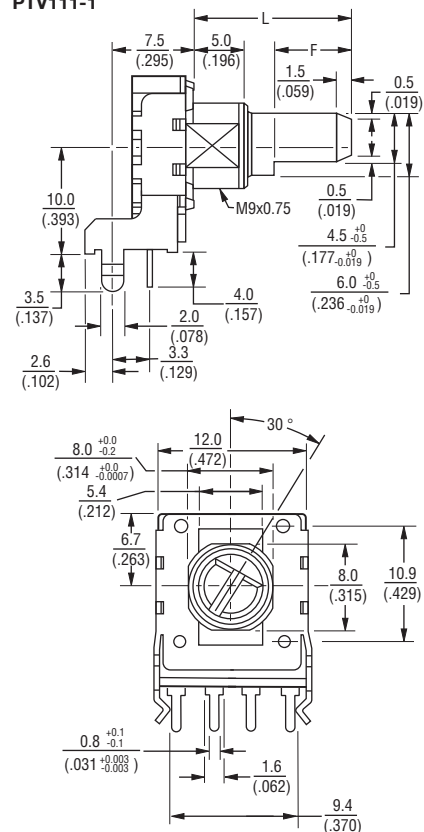
Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

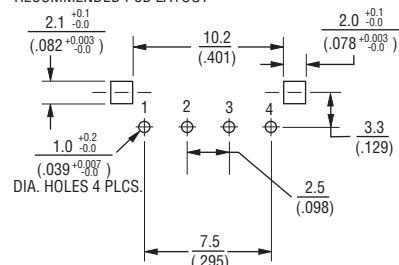
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

BOURNS®

PTV111-1



RECOMMENDED PCB LAYOUT

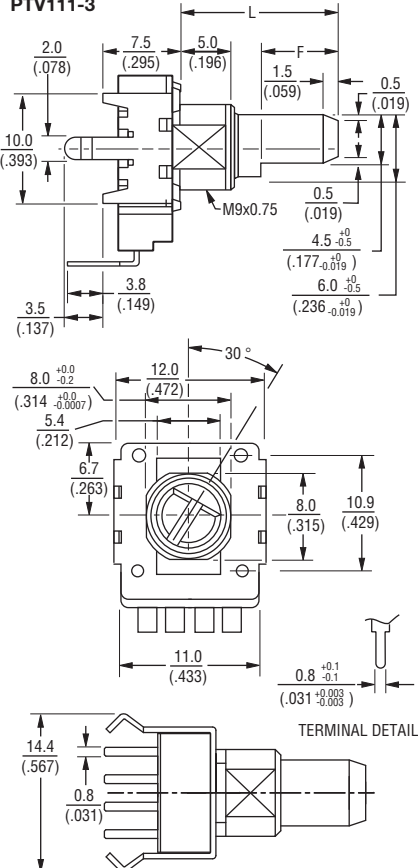


SHAFT SHOWN IN CCW POSITION

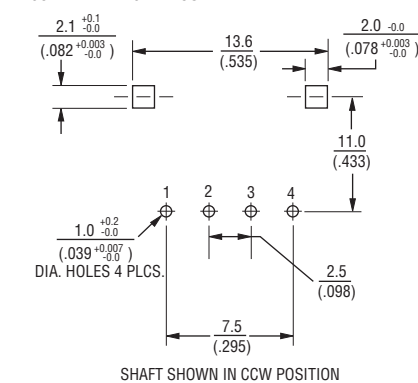
Dimensions Without Bushing

L	$\frac{12.5}{(.492)}$	$\frac{15}{(.591)}$	$\frac{17.5}{(.689)}$	$\frac{20}{(.787)}$
F	$\frac{7}{(.276)}$	$\frac{7}{(.276)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$

PTV111-3

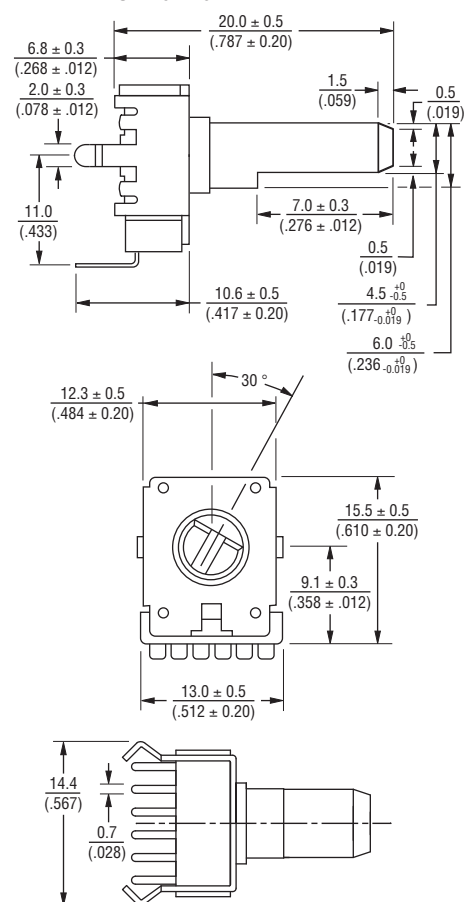


RECOMMENDED PCB LAYOUT

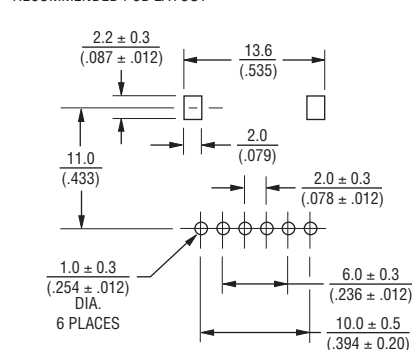


DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

PTV112-4 DUAL GANG



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

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.

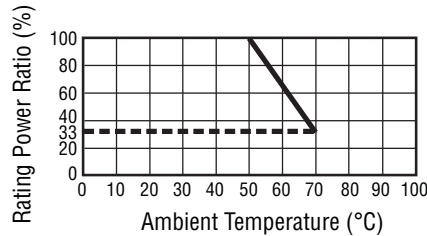
* Available with Pin Styles 1 & 3 only.

**Available with Pin Styles 2 & 4 only.

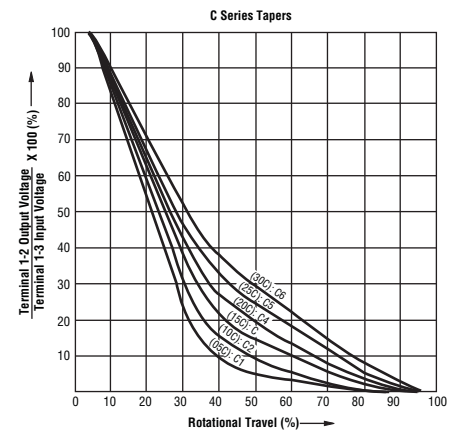
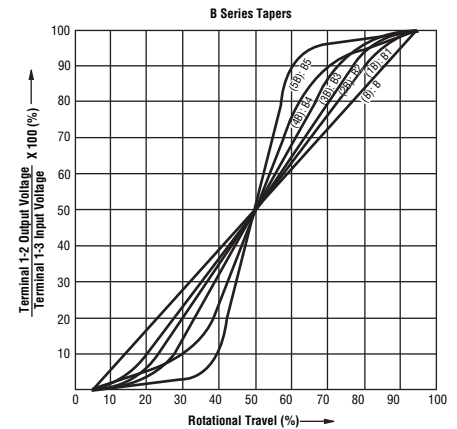
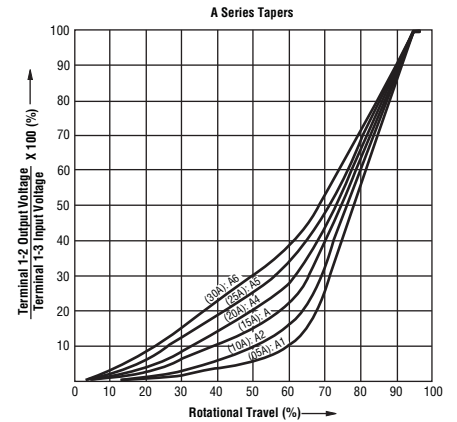
Standard Resistance Table

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



REV. 07/15

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Users should verify actual device performance in their specific applications.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Bourns:

PTV111-1415A-B103	PTV111-4420A-C503	PTV112-4420A-A503	PTV112-4420A-B503	PTV111-1415A-A103
PTV111-1415A-B203	PTV111-1420A-A203	PTV111-1420A-B503	PTV111-3415A-A103	PTV111-4220A-B103
PTV111-2425A-B104	PTV111-3415A-B103	PTV111-3220A-B-103	PTV111-2415A-B103	PTV111-2420A-B203
PTV111-3415A-B503	PTV111-3420A-A203	PTV111-3420A-B103	PTV111-3420A-B503	PTV111-4220A-B104
PTV111-4420A-A104	PTV111-4420A-A502	PTV111-4420A-A503	PTV111-4420A-B104	PTV111-4420A-B502
PTV111-4420A-B503	PTV111-4420A-C104	PTV111-4420A-C502	PTV111-4425A-B103	PTT111-3220A-B503
PTT111-4425A-B502	PTV111-1225A-B102	PTV111-1415A-A105	PTV111-1415A-A1105	PTV112-4220A-B103
PTV112-4420A-A103	PTV112-4420A-B103	PTT111-3217A-B503	PTV111-2415A-A105	PTV111-2425A-B103
PTV111-4215A-B502	PTV111-4420A-B105	PTV111-4425A-B105	PTV111-4427A-B105	PTV111-4425A-B502
PTV112-3212A-B103	PTV112-3412A-A203	PTV112-3412A-A204	PTV112-3412A-B503	PTV111-1415A-A1254
PTV111-3415A-B104	PTV111-4420A-B103	PTV111-1215A-B1503	PTV111-3415A-B0102	PTV111-3417A-C503
PTV111-1420A-B102	PTV111-3415A-A104	PTV112-2215A-B1503	PTT111-4420A-B103	PTV112-4420A-A504
PTT111-3415A-B103	PTV111-3417A-B0103	PTV111-1415A-B1254	PTV111-4415A-B104	PTV111-1415A-A3254
PTT111-3415A-B502	PTV112-2425A-A3103	PTV111-1215A-B103	PTV111-1415A-C3103	PTV112-4420A-C502
PTV111-1415A-B1503	PTV111-1415A-B1105	PTV112-4420A-C503	PTV111-1415A-A3104	PTV111-1415A-A3103
PTV111-1415A-B1203	PTV111-1415A-B1103	PTV112-4420A-B502	PTV111-1420A-B103	PTV112-4420A-C104
PTV112-4420A-A104	PTV112-4420A-B104	PTV111-1415A-A5304	PTV111-1415A-A3105	PTV112-4420A-A502