

#### **Features**

- Carbon element
- Insulated shaft
- Snap-in clip

PTV111-2

10.0

(.102)

- Center detent
- Center tap option
- Assorted pin layouts

**Product Dimensions** 

8.1 (.318)

Ш

(.078)

(.472)

(.433)

(.157)

(.240)

#### ■ Dual gang option

Various taper options

# PTV/PTT Series - 12 mm Potentiometer

(.059)

(.019)

(.177<sub>-0.019</sub> )

(.370)

 $\overline{(.236_{\,-0.019}^{\,+0})}$ 

(.019)

#### **Electrical Characteristics**

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

#### **Environmental Characteristics**

Operating Temperature

.....-10 °C to +50 °C Power Rating......0.05 Watt Maximum Operating Voltage

.....50 V AC, 20 V DC Sliding Noise ...... 100 mV max.

#### **Mechanical Characteristics**

Mechanical Angle Rotational Torque Detent Torque .... Stop Strength no bushing ...... 3 kg-cm min.

with bushing...... 3 kg-cm min. Rotational Life ...... 15,000 cycles **Soldering Condition** 

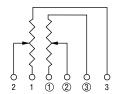
......300 °C max. within 3 seconds Hardware ..... One flat washer and mounting nut supplied per potentiometer with bushing

#### **Electrical Diagrams**

MODEL PTV 111



MODEL PTV 112



MODEL PTT 111



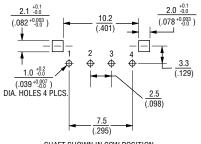
# (.137)

e	300	°±5°
	20 to 200	
	30 to 300	g-cm

### RECOMMENDED PCB LAYOUT

0.8 +0.1

(.031 +0.003 )

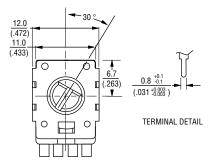


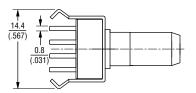
#### SHAFT SHOWN IN CCW POSITION

#### **Dimensions Without Bushing**

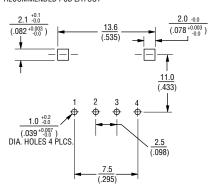
L	<u>15</u> (.591)	20 (.787)	22.5 (.886)	25 (.984)	27.5 (1.083)
F	<u>4.5</u> (.177)	<u>7</u> (.276)	<u>7</u> (.276)	<u>12</u> (.472)	<u>12</u> (.472)

#### PTV111-4 8.5 2.0 ± 0.15 (.334) (.059) (.019)10.0 (.393 4.5 -0.5 $(.177_{-0.019}^{+0}$ 11.0 (.433) $\overline{(.236_{-0.019}^{+0})}$ (.150)





#### RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

MM DIMENSIONS:

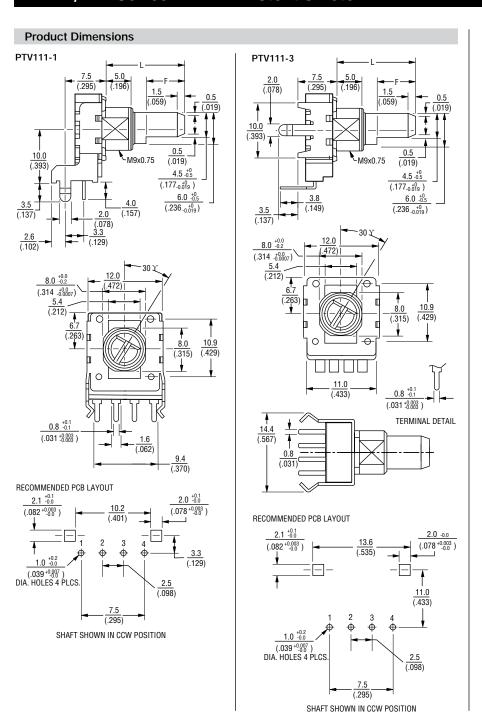


#### **Applications**

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

# PTV/PTT Series - 12 mm Potentiometer

# **BOURNS**®

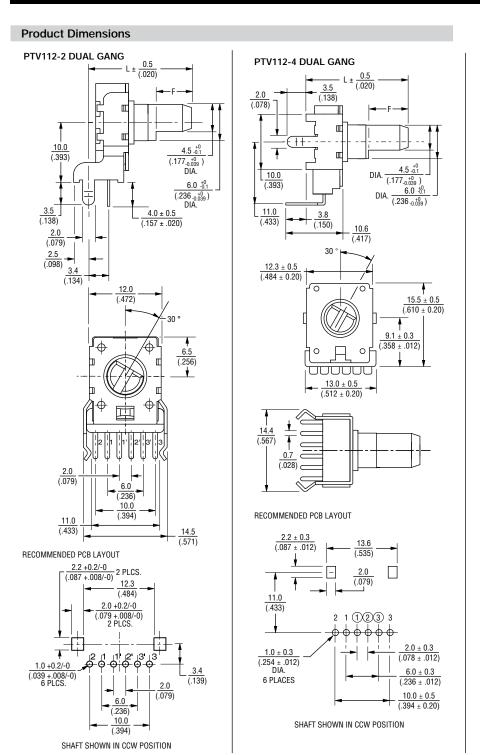


Dimensions With Bushing				
L	12.5 (.492)	<u>15</u> (.591)	<u>17.5</u> (.689)	<u>20</u> (.787)
F	<u>7</u> (.276)	<u>7</u> (.276)	<u>12</u> (.472)	<u>12</u> (.472)

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

# PTV/PTT Series - 12 mm Potentiometer

#### **BOURNS**®

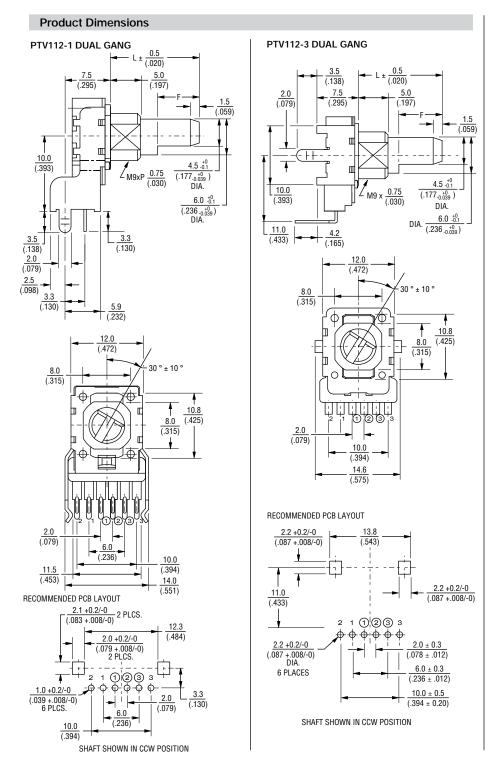


# Dimensions Without Bushing L \frac{15}{(.591)} \frac{20}{(.787)} \frac{22.5}{(.886)} \frac{25}{(.984)} \frac{27.5}{(1.083)} F \frac{4.5}{(.177)} \frac{7}{(.276)} \frac{12}{(.472)} \frac{12}{(.472)}

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

# PTV/PTT Series - 12 mm Potentiometer

#### BOURNS

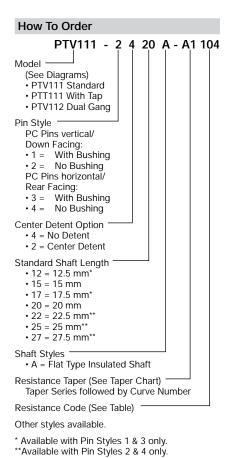


Dimensions With Bushing				
L	<u>12.5</u> (.492)	<u>15</u> (.591)	<u>17.5</u> (.689)	<u>20</u> (.787)
F	<u>7</u> (.276)	<u>7</u> (.276)	<u>12</u> (.472)	<u>12</u> (.472)

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

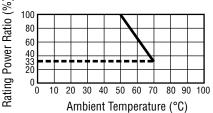
# PTV/PTT Series - 12 mm Potentiometer

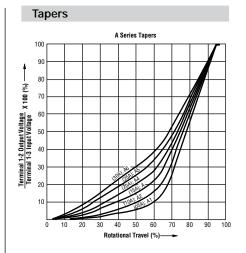
#### BOURNS

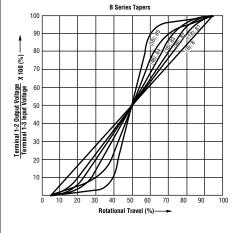


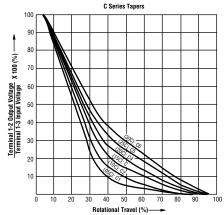
Standard Resistance Table			
Resistance (Ohms)	Resistance Code		
1,000	102		
2,000	202		
5,000	502		
10,000	103		
20,000	203		
50,000	503		
100,000	104		
200,000	204		
500,000	504		
1,000,000	105		

# Derating Curve









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