

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

Ш

(.078)

(.472)

(.433)

(.157)

(.240)

■ Dual gang option

Various taper options

PTV/PTT Series - 12 mm Potentiometer

(.059)

(.019)

(.177_{-0.019})

(.370)

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

(.019)

Electrical Characteristics

Taper.....Linear, audio Standard Resistance Range1 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**

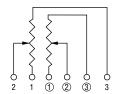
......300 °C max. within 3 seconds Hardware One flat washer and mounting nut supplied per potentiometer with bushing

Electrical Diagrams

MODEL PTV 111



MODEL PTV 112



MODEL PTT 111



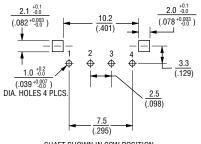
(.137)

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

RECOMMENDED PCB LAYOUT

0.8 +0.1

(.031 +0.003)

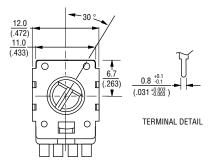


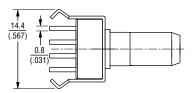
SHAFT SHOWN IN CCW POSITION

Dimensions Without Bushing

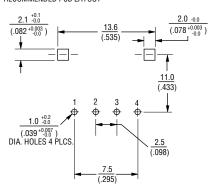
| L | <u>15</u> (.591) | 20 (.787) | 22.5 (.886) | 25 (.984) | 27.5 (1.083) |
|---|----------------------|-----------------|-----------------|---------------------|------------------|
| F | <u>4.5</u> (.177) | <u>7</u> (.276) | <u>7</u> (.276) | <u>12</u> (.472) | <u>12</u> (.472) |

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:

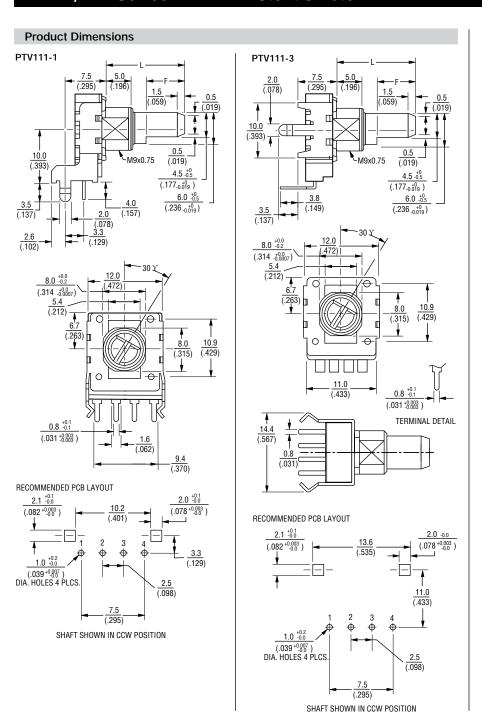


Applications

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

PTV/PTT Series - 12 mm Potentiometer

BOURNS®

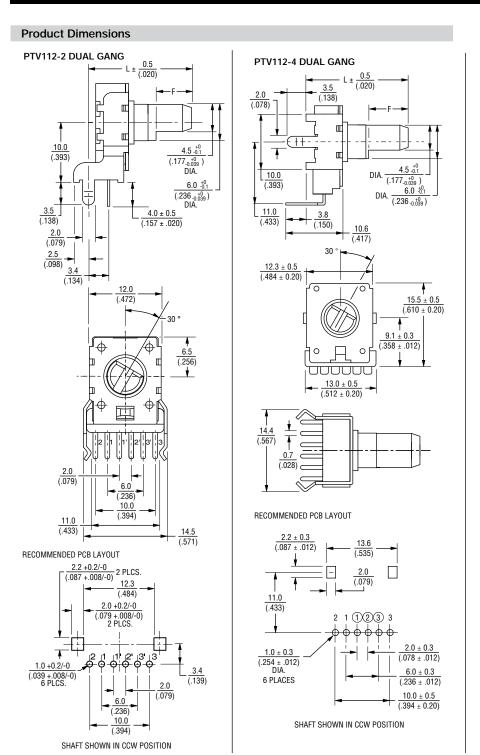


| Dimensions With Bushing | | | | |
|-------------------------|-----------------|---------------------|-----------------------|---------------------|
| L | 12.5 (.492) | <u>15</u> (.591) | <u>17.5</u> (.689) | <u>20</u> (.787) |
| F | <u>7</u> (.276) | <u>7</u> (.276) | <u>12</u> (.472) | <u>12</u> (.472)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

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

PTV/PTT Series - 12 mm Potentiometer

BOURNS®

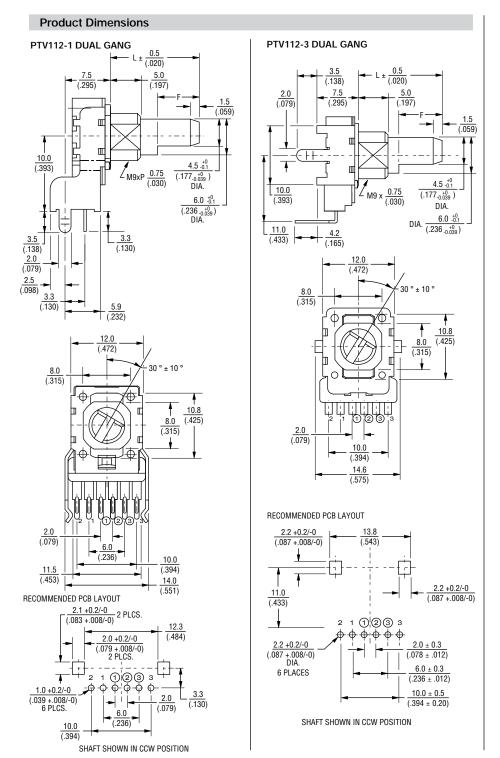


Dimensions Without Bushing L \frac{15}{(.591)} \frac{20}{(.787)} \frac{22.5}{(.886)} \frac{25}{(.984)} \frac{27.5}{(1.083)} F \frac{4.5}{(.177)} \frac{7}{(.276)} \frac{12}{(.472)} \frac{12}{(.472)}

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

PTV/PTT Series - 12 mm Potentiometer

BOURNS

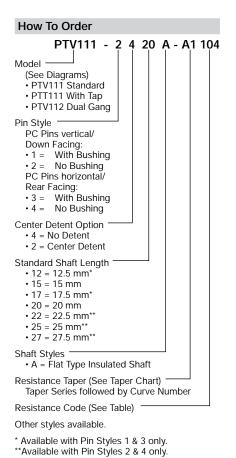


| Dimensions With Bushing | | | | |
|-------------------------|-----------------------|---------------------|-----------------------|---------------------|
| L | <u>12.5</u> (.492) | <u>15</u> (.591) | <u>17.5</u> (.689) | <u>20</u> (.787) |
| F | <u>7</u> (.276) | <u>7</u> (.276) | <u>12</u> (.472)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

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

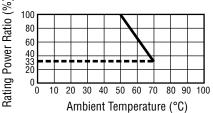
PTV/PTT Series - 12 mm Potentiometer

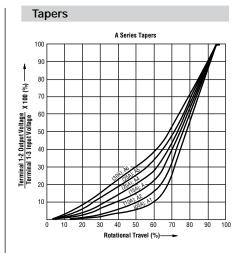
BOURNS

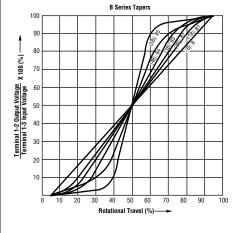


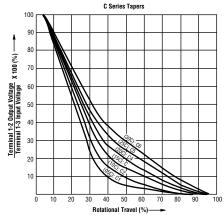
| Standard Resistance Table | | | |
|---------------------------|--------------------|--|--|
| Resistance (Ohms) | Resistance Code | | |
| 1,000 | 102 | | |
| 2,000 | 202 | | |
| 5,000 | 502 | | |
| 10,000 | 103 | | |
| 20,000 | 203 | | |
| 50,000 | 503 | | |
| 100,000 | 104 | | |
| 200,000 | 204 | |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

Derating Curve









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        PTV112-4420A-B503
        PTV111-3415A-A103
        PTV111-4220A-B103

        PTV111-3415A-B103
        PTV111-3220A-B-103
        PTV111-3415A-B503
        PTV111-3420A-A203
        PTV111-3420A-B103

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