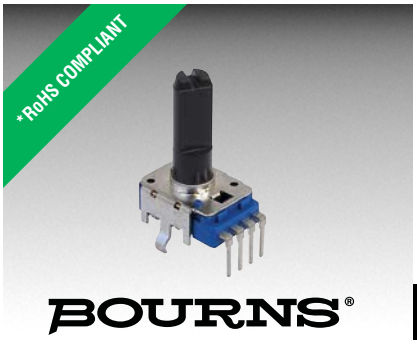


BOURNS®

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 ..... ±20 %
Residual Resistance ..... 1 % max.

Environmental Characteristics

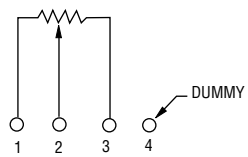
Operating Temperature
..... -10 °C to +50 °C
Power Rating ..... 0.05 Watt
Maximum Operating Voltage
..... 50 V AC, 20 V DC
Sliding Noise ..... 100 mV max.

Mechanical Characteristics

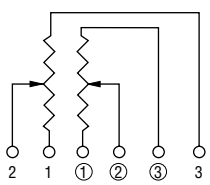
Mechanical Angle ..... 300 ° ±5 °
Rotational Torque ..... 20 to 200 g-cm
Detent Torque ..... 30 to 300 g-cm
Stop Strength
no bushing ..... 3 kg-cm min.
with bushing ..... 3 kg-cm min.
Rotational Life ..... 15,000 cycles
Soldering Condition
.....300 °C max. within 3 seconds
Hardware ..... One flat washer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

Electrical Diagrams

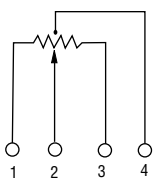
MODEL PTV 111



MODEL PTV 112

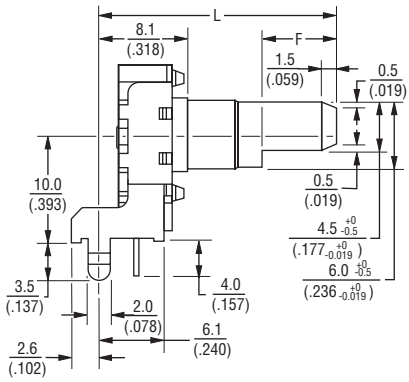


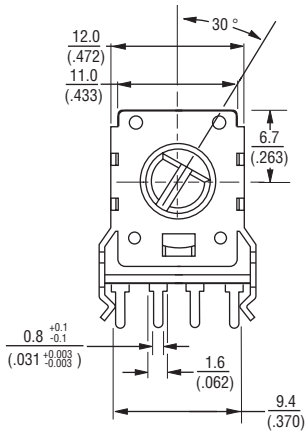
MODEL PTT 111



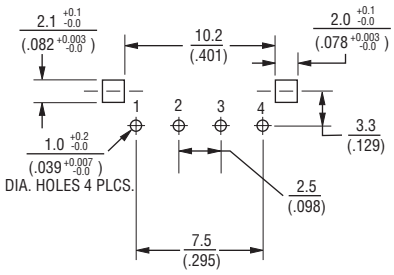
Product Dimensions

PTV111-2



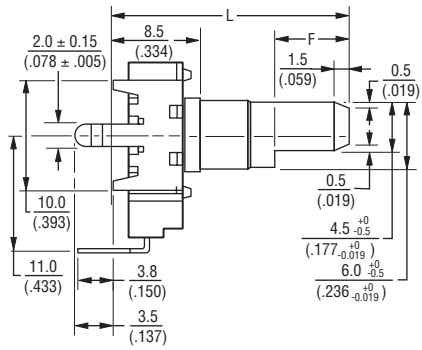


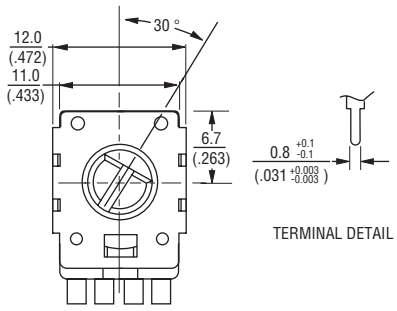
RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

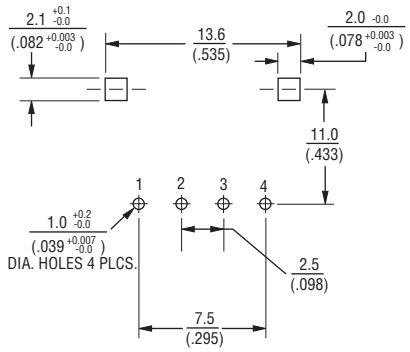
PTV111-4





TERMINAL DETAIL

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: MM (INCHES)

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Applications

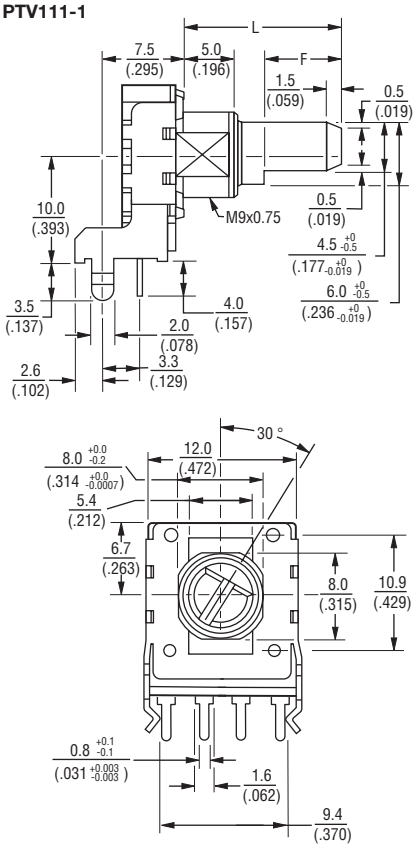
- Audio/TV sets
- Car radio
- Amplifiers/mixers/drum machines/synthesizers
- PCs/monitors
- Appliances

PTV/PTT Series - 12 mm Potentiometer

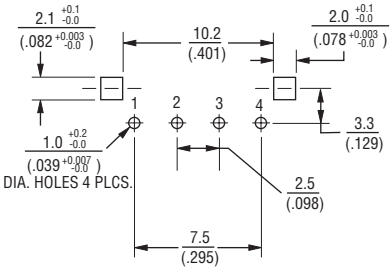
BOURNS®

Product Dimensions

PTV111-1

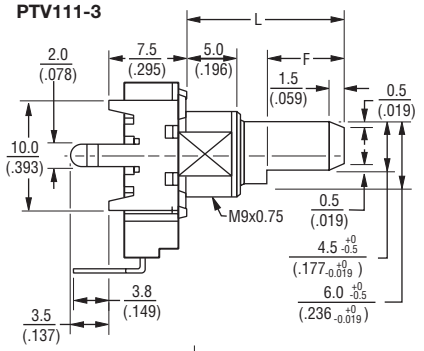


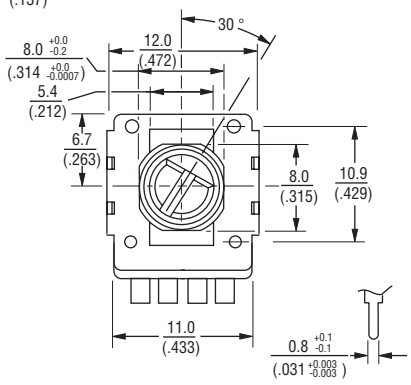
RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

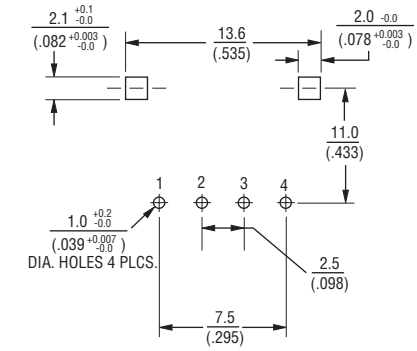
PTV111-3





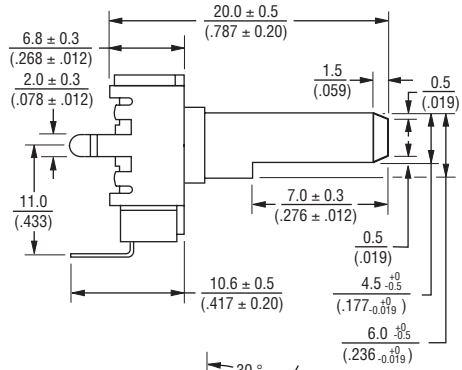
TERMINAL DETAIL

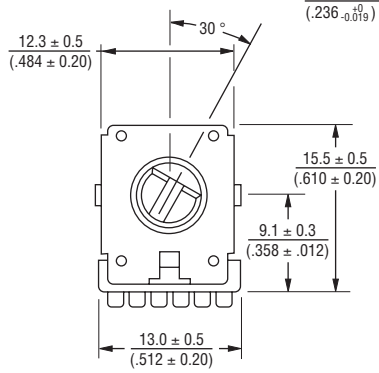
RECOMMENDED PCB LAYOUT

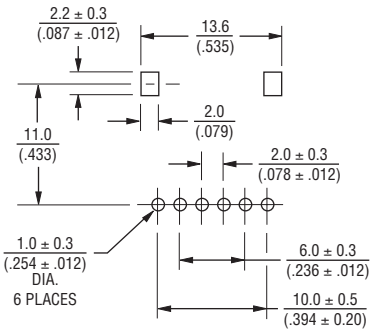


SHAFT SHOWN IN CCW POSITION

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: MM (INCHES)

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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)

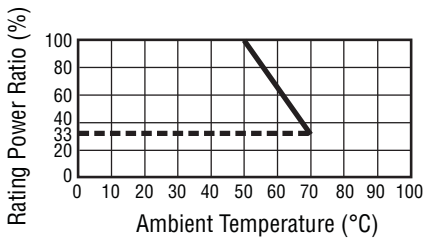
Other styles available.

* Available with Pin Styles 1 & 3 only.
**Available with Pin Styles 2 & 4 only.

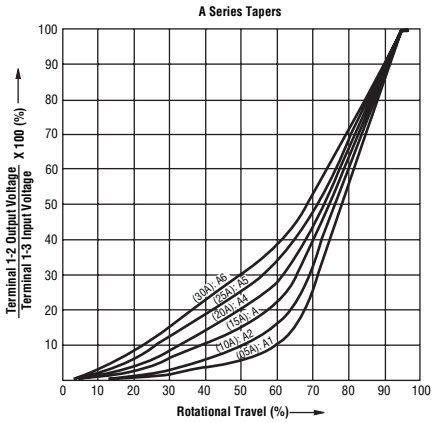
Standard Resistance Table

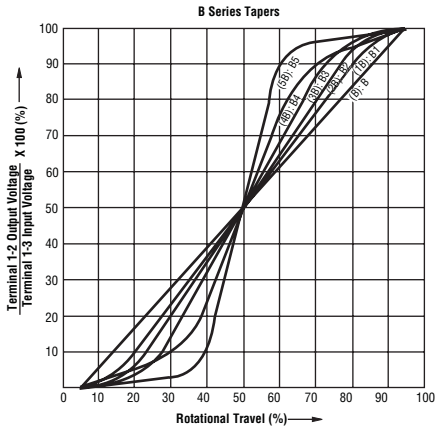
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

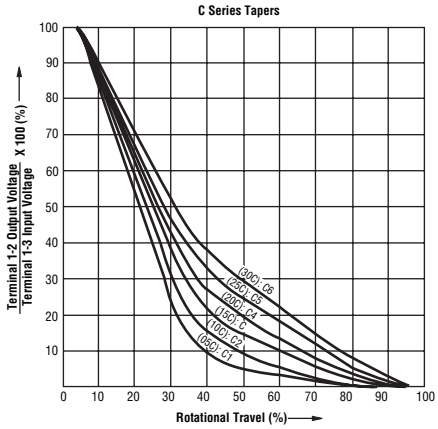
Derating Curve



Tapers







REV. 07/10

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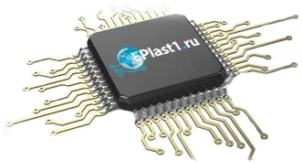
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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