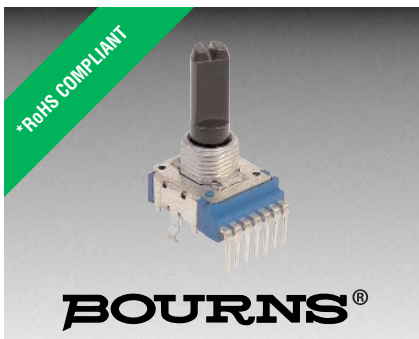




Features

- Carbon element
- Insulated shaft
- Snap-in clip
- Center detent option
- Assorted pin layouts
- RoHS compliant*

Applications

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

PTV142B - 14 mm Dual Potentiometer

Electrical Characteristics

TaperLinear, audio
Standard Resistance Range
.....1 K ohms to 1 M ohms
Standard Resistance Tolerance±20 %
Residual Resistance
.....500 ohms or 1 % max.

Environmental Characteristics

Operating Temp.-10 °C to +50 °C
Power Rating0.05 watt
Maximum Operating Voltage50 V AC
Sliding Noise100 mV maximum

Mechanical Characteristics

Mechanical Angle300 ° ±5 °
Rotational Torque20 to 200 g-cm
Detent Torque30 to 300 g-cm
Stop Strength5 kg-cm min.
Rotational Life15,000 cycles
Soldering Condition
.....300 °C max. within 3 seconds
HardwareOne flat washer and
mounting nut supplied per
potentiometer with bushing

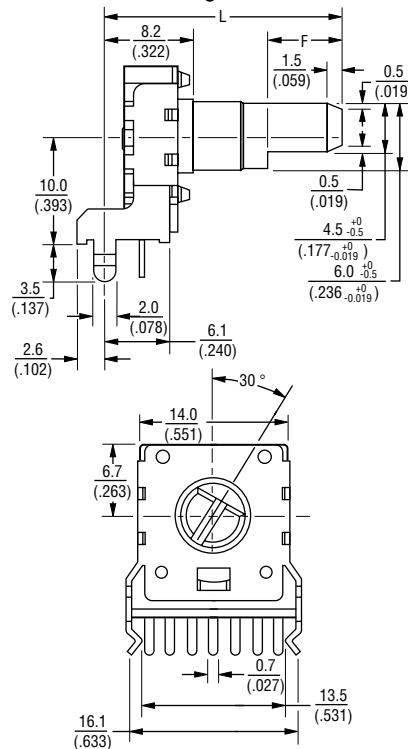
How To Order

PTV142B 2 0 E 1 20 A A 203

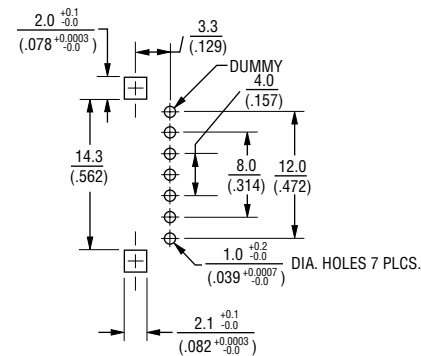
Model _____
Pin Style _____
• 2 = PC Pins vert./Down Facing
• 4 = PC Pins horz./Rear Facing
Center Detent Option _____
• 0 = No Detent
• 2 = Center Detent
Electrical Diagram (See Diagram)
• E = for Tone application
• Y = for Volume application
Bushing Option _____
• 0 = No Bushing
• 1 = With Bushing (M9x0.75)x5 mm
Standard Shaft Length _____
• 15 = 15 mm
• 20 = 20 mm
• 25 = 25 mm
Shaft Styles _____
• A = Flat Type Insulated Shaft
Resistance Taper _____
• A = Audio Taper (5K to 1M available)
• B = Linear Taper (1K to 1M available)
Resistance Code (See Table) _____
Other styles available.

Product Dimensions

PTV142B-2 No Bushing

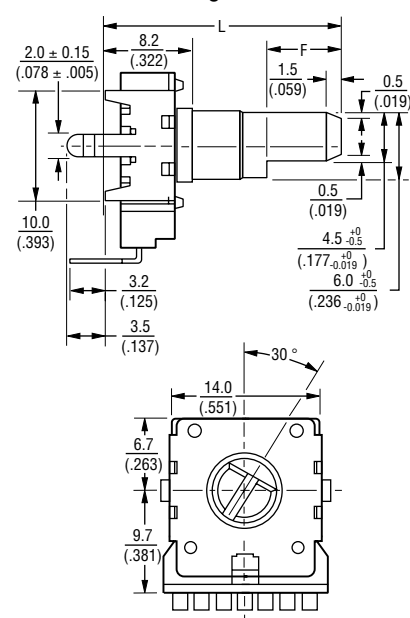


RECOMMENDED PCB LAYOUT

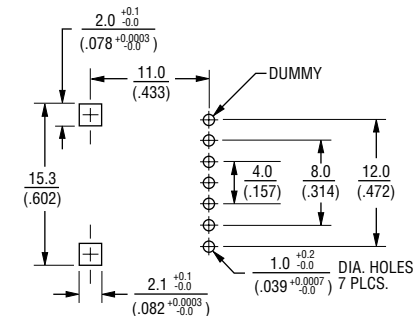


SHAFT SHOWN IN CCW POSITION

PTV142B-4 No Bushing



RECOMMENDED PCB LAYOUT



SHAFT SHOWN IN CCW POSITION

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

Dimensions Without Bushing

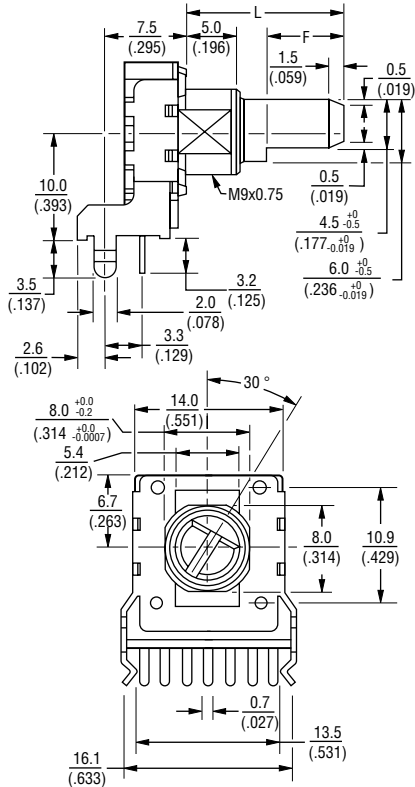
L	15	20	25
	(.590)	(.787)	(.984)
F	4.5	7	12
	(.177)	(.275)	(.472)

PTV142B - 14 mm Dual Potentiometer

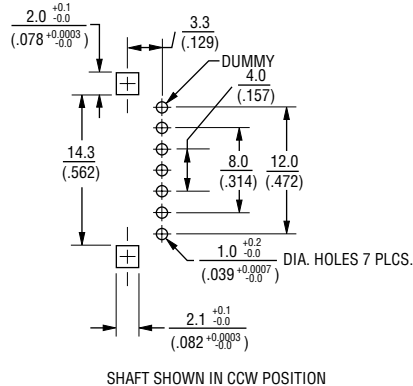
BOURNS®

Product Dimensions

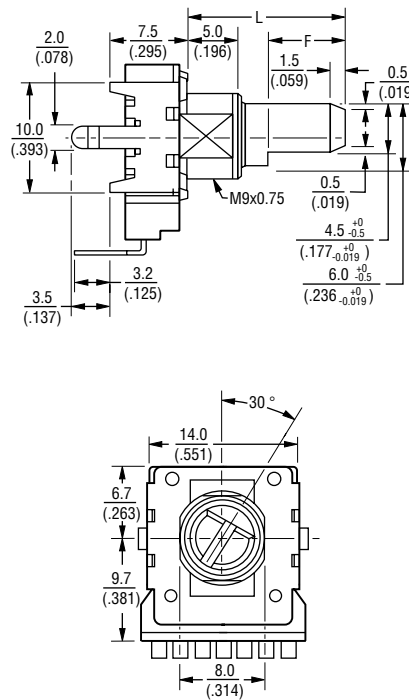
PTV142B-2 With Bushing



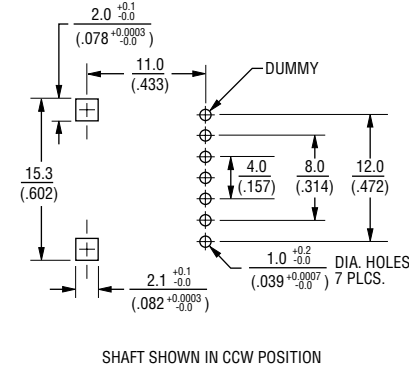
RECOMMENDED PCB LAYOUT



PTV142B-4 With Bushing



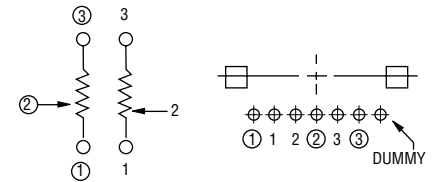
RECOMMENDED PCB LAYOUT



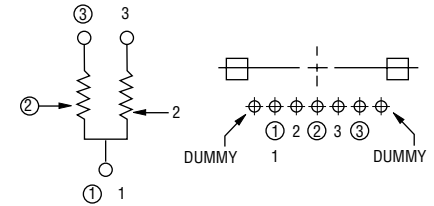
DIMENSIONS ARE: $\frac{\text{MM}}{\text{(INCHES)}}$

Electrical Diagrams

'E' FOR TONE APPLICATION



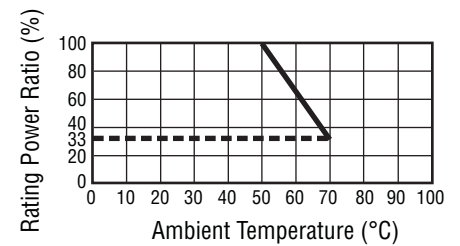
'Y' FOR VOLUME APPLICATION



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



Dimensions With Bushing

L	15 (.590)	20 (.787)	25 (.984)
F	7 (.275)	12 (.472)	12 (.472)

REV. 05/09

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.