



Features

- RoHS compliant*
- Space saving design
- Wide range of resistance values
- Metric shaft and bushing option
- Mounting brackets available
- Linear or audio taper versions

Additional Information

Click these links for more information:



PC - "Slimline" 22 mm Square Single Turn Panel Control

Electrical Characteristics¹

Standard Resistance Range

Linear Tapers.....	500 ohms to 1 megohm
Audio Tapers.....	1 K ohms to 500 K ohms
Total Resistance Tolerance.....	±20 %
Independent Linearity.....	±5 %
Absolute Minimum Resistance.....	5 ohms maximum
Effective Electrical Angle.....	270 ° ± 5 °
Contact Resistance Variation.....	7 % of total resistance
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level.....	.1,000 VAC minimum
70,000 Feet500 VAC minimum
Insulation Resistance (500 V).....	1,000 ohms minimum
Power Rating @ 70 °C (Voltage Limited by Power Dissipation or 350 VAC, Whichever is Less)	
Linear.....	.75 watt
Audio25 watt
Theoretical Resolution.....	Essentially infinite

Environmental Characteristics

Operating Temperature Range	+1 °C to +125 °C
Storage Temperature Range	-40 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range.....	±1000 ppm/°C
Vibration	20 G
Total Resistance Shift.....	±1 % maximum
Voltage Ratio Shift	±20 % maximum
Shock	50 G
Total Resistance Shift.....	±1 % maximum
Voltage Ratio Shift	±20 % maximum
Load Life.....	1,000 Hours @ Rated Power, 20 % RH, 70 °C
Total Resistance Shift.....	±10 % maximum
Rotational Life (No Load).....	50,000 cycles
Total Resistance Shift (Linear taper).....	±10 ohms or 12 %, whichever is greater
Total Resistance Shift (Audio taper).....	±20 % maximum
Contact Resistance Variation.....	±5 % maximum
Moisture Resistance	MIL-STD-202, Method 103, Condition B
Total Resistance Shift	±20 % maximum
IP Rating.....	IP 40

Mechanical Characteristics

Stop Strength (1/4 " and 6 mm Shaft Diameters)	79.09 N-cm (7 lb.-in.)
Mechanical Angle.....	300 ° ± 5 °
Torque	
Starting (Detented).....	0.5-1.5 N-cm (0.75-2.25 oz.-in.)
Starting (Undetented).....	1.5 N-cm (2.25 oz.-in.) maximum
Running (Undetented)	0.18 to 1.06 N-cm (0.25 to 1.5 oz.-in.)
Mounting	79.09 N-cm (7 lb.-in.) maximum
Weight (Single Section)	21 gm (0.75 oz.) maximum
Terminals	PC pin
Soldering Condition	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire 370 °C (700 °F) max. for 3 seconds
Wave Soldering.....	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux 260 °C (500 °F) max. for 5 seconds
Wash processes.....	Not recommended
Marking.....	Manufacturer's trademark, resistance value, part number, and date code
Ganging.....	1 cup maximum
Hardware.....	One lockwasher (H-37-2) and one mounting nut (H-38-11) is shipped with each potentiometer
Detents	Center, 10, 20, 30, none

For additional features or specifications not shown, consult factory.

FOR ORDERING INFORMATION SEE PAGE 4.

¹ Electrical specifications tested at 200 RPM, at room ambient: +25 °C nominal.

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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WARNING

Cancer and Reproductive Harm

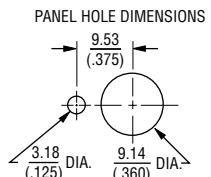
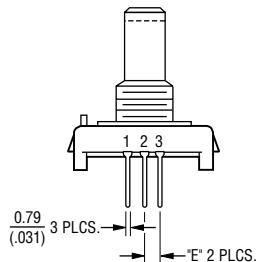
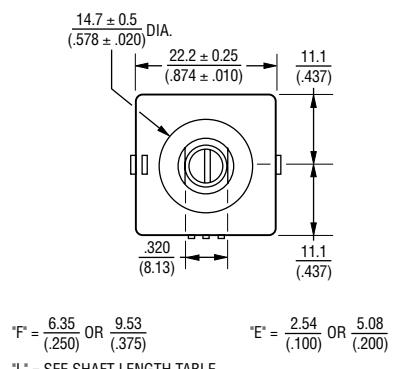
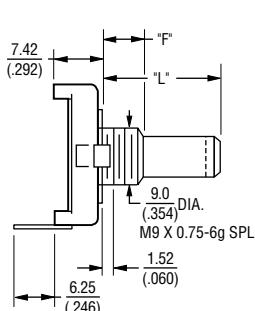
www.P65Warnings.ca.gov

PC – “Slimline” 22 mm Square Single Turn Panel Control

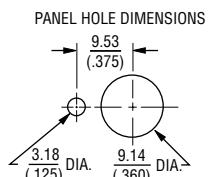
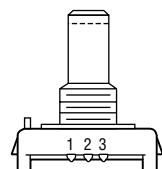
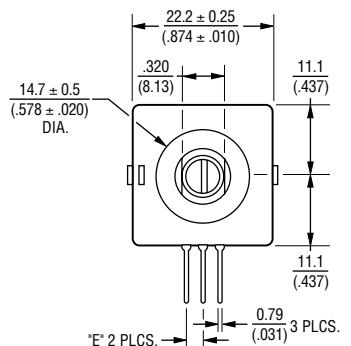
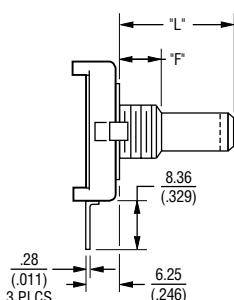
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Product Dimensions

Axial PC Pins



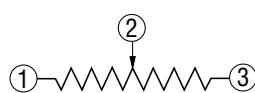
Radial PC Pins



"F" = $\frac{6.35}{(.250)} \text{ OR } \frac{9.53}{(.375)}$
"E" = $\frac{2.54}{(.100)} \text{ OR } \frac{5.08}{(.200)}$

"L" = SEE SHAFT LENGTH TABLE

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

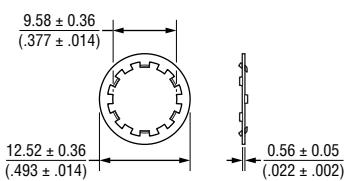


TOLERANCES EXCEPT WHERE NOTED:

.XX = $\pm \frac{.25}{(.010)}$
.XXX = $\pm \frac{.13}{(.005)}$

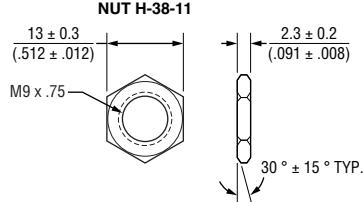
Hardware

LOCKWASHER H-37-2



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

NUT H-38-11



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Date Code Description

Y Y W W M

- Y = COUNTRY OF MANUFACTURE (MEXICO)
- Y = WEEK NUMBER
- YY = LAST TWO DIGITS OF YEAR MANUFACTURED

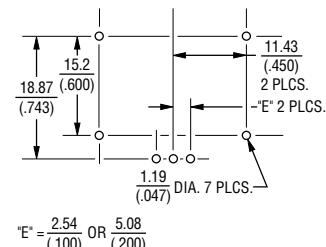
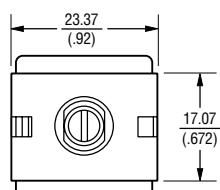
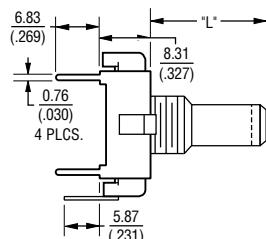
PC – “Slimline” 22 mm Square Single Turn Panel Control

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Product Dimensions

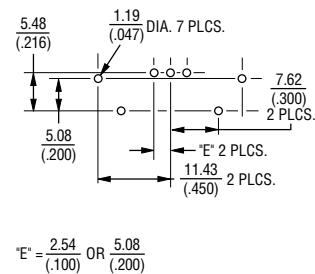
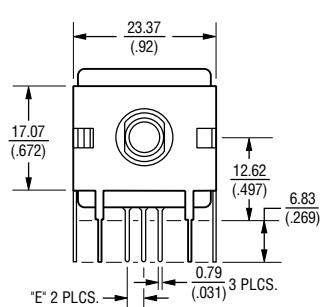
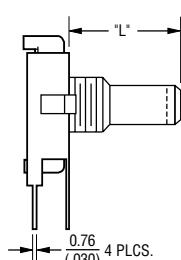
Axial PC PINS

With Rear Mounting Bracket



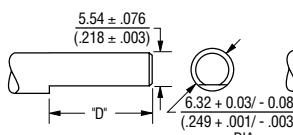
Radial PC PINS

With Side Mounting Bracket

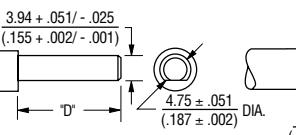


SHAFT STYLES AND ORIENTATION (Full CCW Rotation)

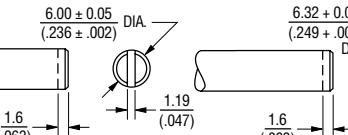
Shaft Style C



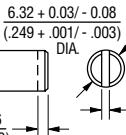
Shaft Style J



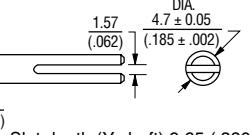
Shaft Style R



Shaft Style B



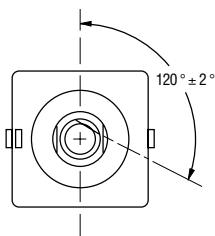
Shaft Style Y



"D" dimensions extend from shaft end to bushing face "D" = (shaft length, FMS) – (bushing length)

Shaft Orientations

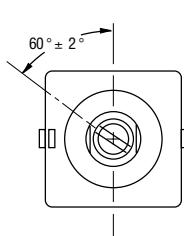
Shaft Styles C, J



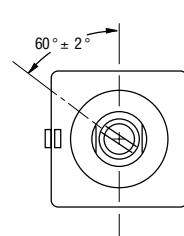
TOLERANCES EXCEPT WHERE NOTED:

$$\begin{aligned} .XX &= \pm .25 \\ .XXX &= \pm .13 \\ &\quad (.005) \end{aligned}$$

Shaft Styles B, R



Shaft Style Y



DIMENSIONS: MM
(INCHES)

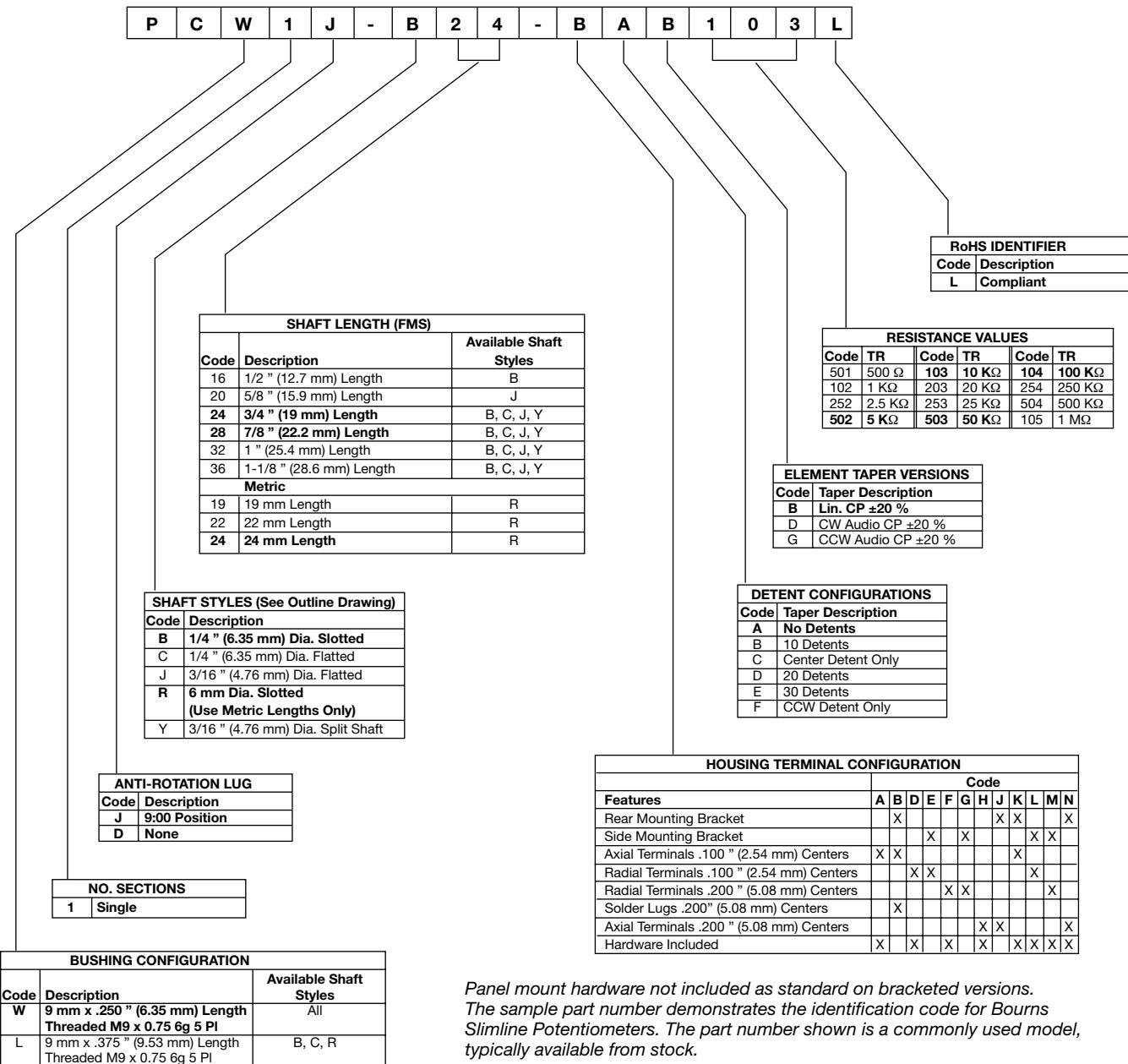
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How to Order PC "Slimline" Panel Controls

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Panel mount hardware not included as standard on bracketed versions.
The sample part number demonstrates the identification code for Bourns Slimline Potentiometers. The part number shown is a commonly used model, typically available from stock.

Boldface features are Bourns standard options. All others are available with higher minimum order quantities.

BOURNS®

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REV. 07/21

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[SPPG056P103U](#) [SWE-10](#) [GA2G040F103BA](#) [249FGJS0XB25102KA](#)