

Features

- RoHS compliant*
- Space saving design
- Wide range of resistance values
- PC pin or solder lug terminals
- Metric shaft and bushing option
- Mounting brackets available

■ Linear or audio taper versions

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

Electrical Characteristics	
Standard Resistance Range	
Linear Tapers	
	1 K ohms to 500 K ohms
	±20 %
	±5 %
	5 ohms maximum
Dielectric Withstanding Voltage (MIL-STD-202, Me	etnod 301)
	1,000 VAC minimum
	500 VAC minimun
nsulation Resistance (500 V)	1,000 ohms minimun
Power Rating @ 70 °C (Voltage Limited by Power	Dissipation or 350 VAC, Whichever is Less)
Linear	
	Essentially infinite
medical nesolution	Looendary mining
Environmental Characteristics	
Operating Temperature Range	+1 °C to +125 °C
Storage Temperature Range	40 °C to +125 °C
Temperature Coefficient Over Storage Temperature	e Range ±1000 ppm/°C
	20 C
	±1 % maximun
	±20 % maximur
	50 (
	±1 % maximur
	±20 % maximun
_oad Life	1,000 Hours @ Rated Power, 20 % RH, 70 °C
Total Resistance Shift	±10 % maximun
	50,000 cycles
	±10 ohms or 12 %, whichever is greate
Total Posistance Shift (Audio taper)	±20 % maximun
Contact Posistance Variation	±20 % maximur ±5 % maximur
	MIL-STD-202, Method 103, Condition I
	±20 % maximur
P Rating	IP 40
Mechanical Characteristics	
Stop Strength (1/4 " and 6 mm Shaft Diameters)	
Mechanical Angle	300°±5
orque	
	U.5-1.5 N-CIII (U.75-2.25 0Z-III.)
Running (Undetented)	
Mounting	79.09 N-cm (7 lbin.) maximur
Veight (Single Section)	
	PC pin or solder lu
Soldering Condition	
Manual Coldorina	
Iviariuai Solueririg	
Mariaar Coldoning	370 °C (700 °F) max. for 3 second
	96.5Sn/3.0Ag/0.5Cu solder with no-clean flu
Wave Soldering	260 °C (500 °F) max. for 5 second
Wave Soldering	96.5Sn/3.0Ag/0.5Ču solder with no-clean flux 260 °C (500 °F) max. for 5 seconds Not recommendeNot recommende
Wave Soldering Wash processes	260 °C (500 °F) max. for 5 secondsNot recommendedManufacturer's trademark, resistance value, part number, and date code
Wave Soldering	260 °C (500 °F) max. for 5 seconds

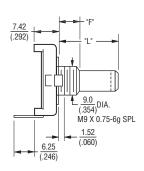
For additional features or specifications not shown, consult factory. FOR ORDERING INFORMATION SEE PAGE 4.

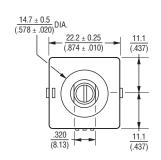


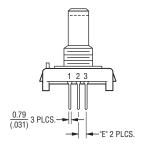
PC - "Slimline" 22 mm Square Single Turn Panel Control **BOURNS**"

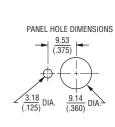
Product Dimensions

Axial PC Pins







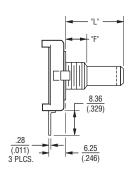


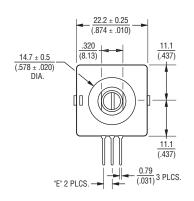
"F" =
$$\frac{6.35}{(.250)}$$
 OR $\frac{9.53}{(.375)}$

"E" =
$$\frac{2.54}{(.100)}$$
 OR $\frac{5.08}{(.200)}$

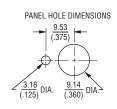
"L" = SEE SHAFT LENGTH TABLE

Radial PC Pins





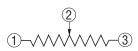




"F" =
$$\frac{6.35}{(.250)}$$
 OR $\frac{9.53}{(.375)}$

"E" =
$$\frac{2.54}{(.100)}$$
 OR $\frac{5.08}{(.200)}$

"L" = SEE SHAFT LENGTH TABLE



TOLERANCES EXCEPT WHERE NOTED:

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

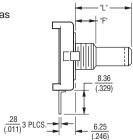
DIMENSIONS: $\frac{MM}{(INCHES)}$

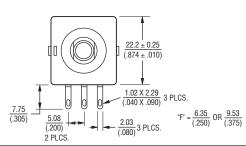
PC - "Slimline" 22 mm Square Single Turn Panel Control BOURNS®

Product Dimensions

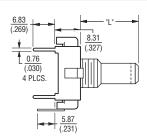
SOLDER LUGS

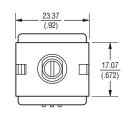
(Dimensions not given are the same as Axial PC pins.

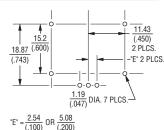




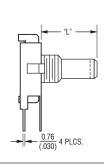
Axial PC PINS With Rear Mounting Bracket

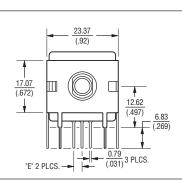


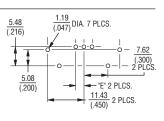




Radial PC PINS With Side Mounting Bracket

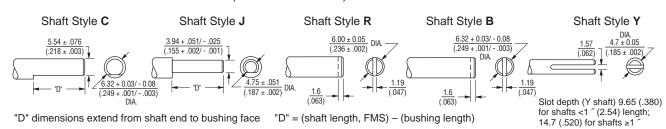






"E" = $\frac{2.54}{(.100)}$ OR $\frac{5.08}{(.200)}$

SHAFT STYLES AND ORIENTATION (Full CCW Rotation)



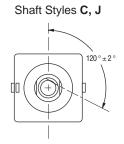
MM

(INCHES)

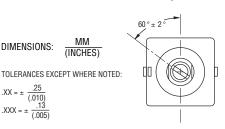
DIMENSIONS:

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

Shaft Orientations

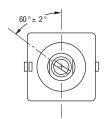


Shaft Styles B, R



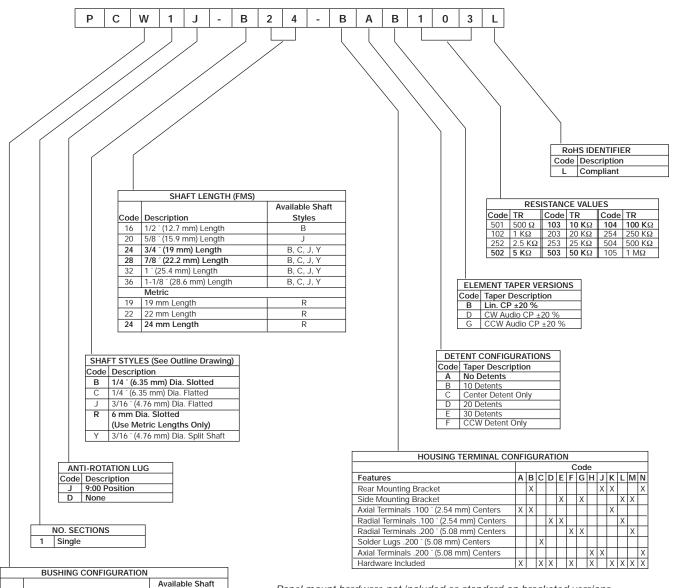
Shaft Style Y

(2.54) length



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.



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.

Code Description

W

9 mm x .250 ~ (6.35 mm) Length

Threaded M9 x 0.75 6g 5 Pl 9 mm x .375 (9.53 mm) Length Threaded M9 x 0.75 6g 5 Pl Styles

B, C, R

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