

PTP90 Series Panel Control w/Push Latching Shaft

Standard Resistance Range
.....1K ohms to 1 megohm

Standard Resistance Tolerance
R < 250K ohms±20 %
≥ 250K ohms±30 %

End Resistance
R < 50K ohms 30 ohms max.
≥ 50K ohms 0.1 % of TR max.

Insulation Resistance @ 250 VDC
..... 100 megohms min.

Dielectric Withstanding Voltage
.....300 VAC

Tracking Error (-40 dB to 0 dB)±3 dB

Standard Taper Linear, Audio

Power Rating
Linear 0.05 watt
Audio 0.025 watt

Slider Noise 100 mV max.

Operating Voltage..... 50 VAC / 10 VDC

Operational Life	15,000 cycles
TR Shift	±15 %
Operating Temperature Range	-10 °C to +55 °C
Resistance to Solder Heat	±5 %
IP Rating	IP 40
Moisture Sensitivity Level	1
ESD Classification (HBM)	N/A

Mechanical Angle 310 ° max.
Operating Torque 20~250 gf-cm
Stop Strength 4 kgf-cm max.
Mounting Torque 10 kgf-cm max.
Shaft Push Latch Force 40~500 gf
Push Latch Operating Life
..... 10,000 cycles
Soldering Condition
Manual 300 °C ±5 °C for 3 sec.
Wave 260 °C ±5 °C for 5 sec.
Wash Not recommended
Hardware One flat washer and
one mounting nut supplied with
each potentiometer

(Shown with Knurled Shaft)

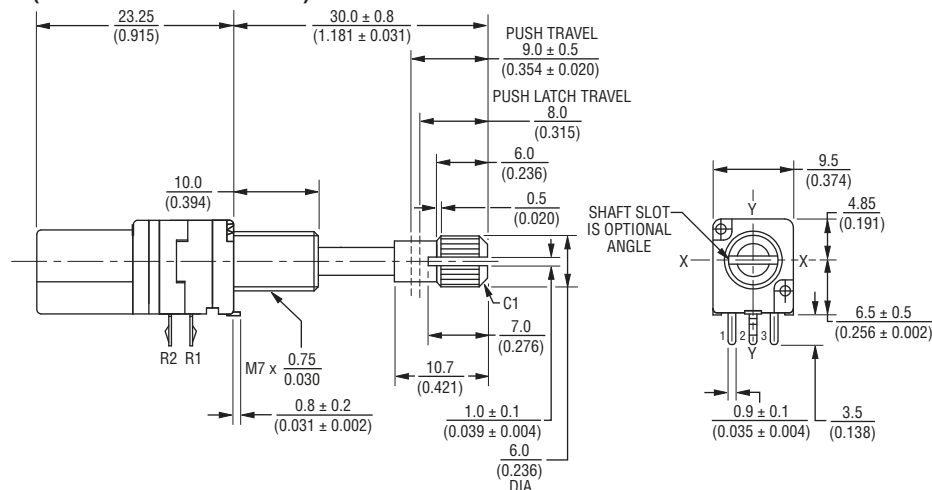


Figure 1: Dimensions of the test specimen. The diagram shows a 3x3 grid of circular holes. The center hole has a diameter of 1.0 inch with a tolerance of +0.1/-0 inches, and a positional tolerance of 0.039 inches with a tolerance of +0.004/-0 inches relative to the mounting surface. The distance between the centers of adjacent holes is 5.0 inches (0.197 inches). The distance from the center of the central hole to the center of the hole at the top edge is 2.5 inches (0.098 inches). The mounting surface is indicated by a horizontal line.

NUT

WASHER

DIMENSIONS:

MM		INCHES	
12.7	(.500)	12.0	(.472)
11.0	(.433)	7.2	(.283)
0.75	(.030)	0.5	(.020)
2.0	(.079)		

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



WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

Applications

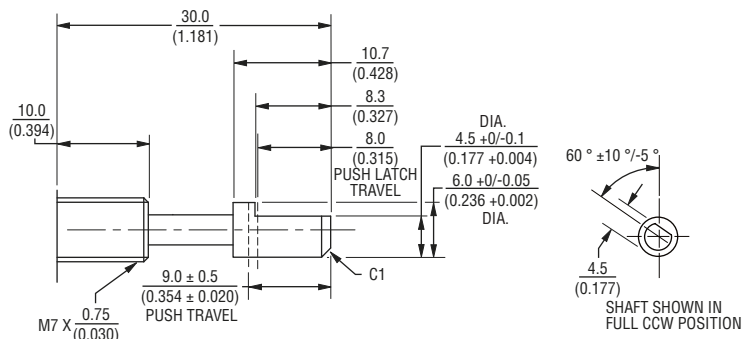
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

BOURNS®

Additional Shaft Styles

Flatted Shaft



Slotted Shaft



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

How To Order

PTP90 2 - 0 30 K - 103 B2

Model Number
Designator
PTP90 = Panel Control
w/Push Latching Shaft

Number of Sections
1 = Single Gang
2 = Dual Gang

Center Detent
0 = No Detent
1 = Center Detent

Shaft Length (FMS)
30 = 30 mm

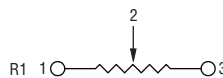
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal

Resistance Code
(See Standard Resistance Table)

Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number

Schematics

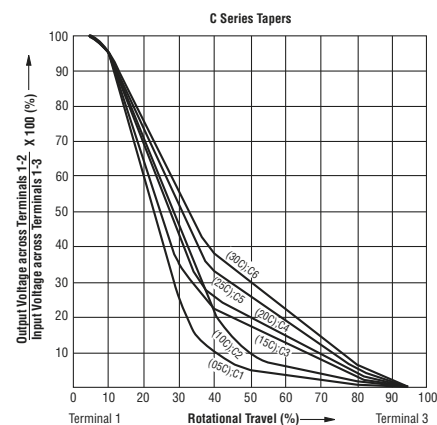
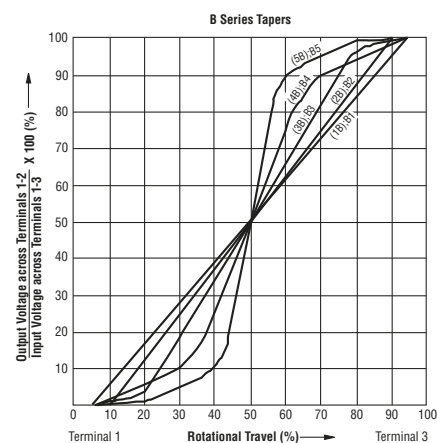
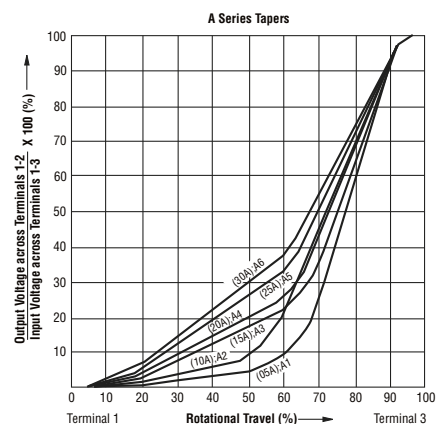
Single Gang



Dual Gang



Tapers



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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REV. 11/18

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