

This series is currently available but not recommended for new designs.

PTP90 Series Panel Control w/Push Latching Shaft

Standard Resistance Range1K ohms to 1 megohm

Standard Resistance Tolerance

 R < 250K ohms±20 %

 R ≥ 250K ohms±30 %

End Resistance

 R < 50K ohms 30 ohms max.

 R ≥ 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 Noise100 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)

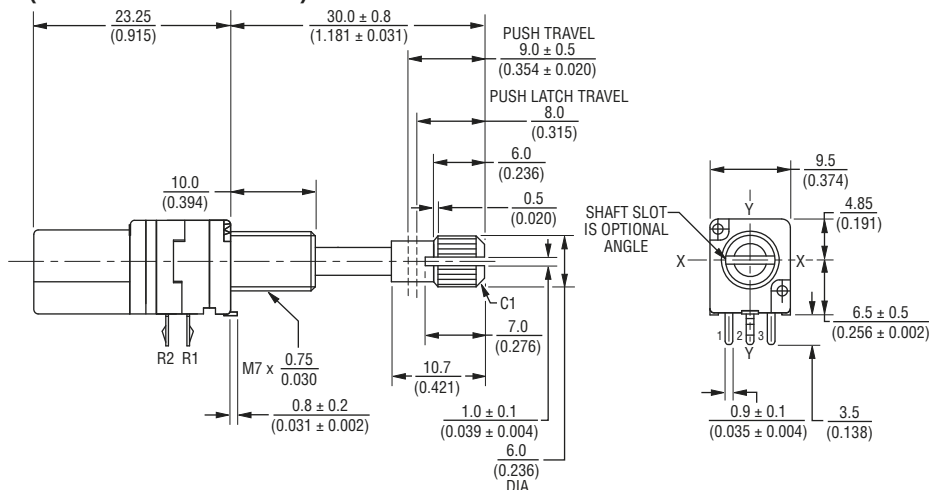


Figure 1: Dimensions of the test specimen. The diagram shows a rectangular specimen with a grid of 3x3 mounting holes. Dimensions are given in inches and millimeters. The total width is 2.5 inches (0.098 inches). The distance between the center of the first and last hole is 5.0 inches (0.197 inches). The diameter of each hole is 1.0 inch with a tolerance of +0.1/-0.039 inches (0.004/-0.063 inches). The mounting surface is indicated by a dashed line.

NUT

Technical drawing of a hexagonal nut. The top view shows a hexagon with a central circular hole. Dimensions include: outer diameter (DIA. 12.7 (.500)), inner hole diameter (DIA. 7.2 (.283)), and hexagonal width across flats (11.0 (.433)). A callout indicates the thread specification M7 x 0.75 (.030). The side view shows a nut with a height of 2.0 (.079).

WASHER

Technical drawing of a flat washer. The top view shows a circular washer with a central hole. Dimensions include: outer diameter (DIA. 12.0 (.472)), inner hole diameter (DIA. 7.2 (.283)), and thickness (0.5 (.020)).

DIMENSIONS: MM (INCHES)

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 2015/863, Mar 31, 2015 and Annex.

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Applications

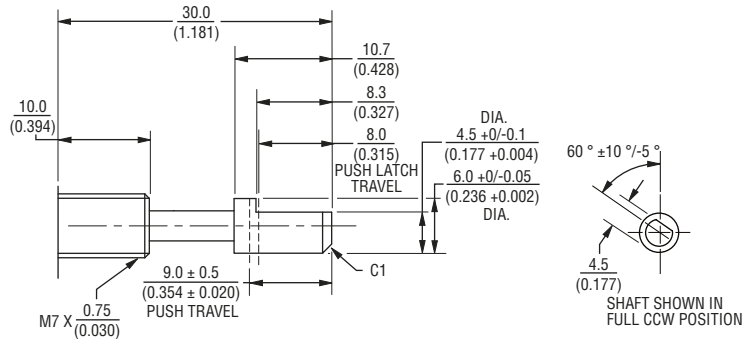
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

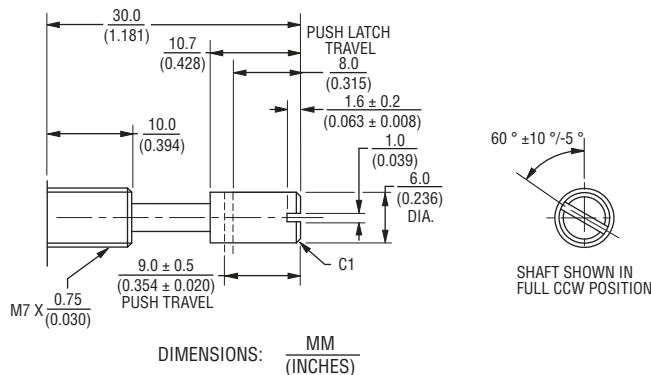
BOURNS®

Additional Shaft Styles

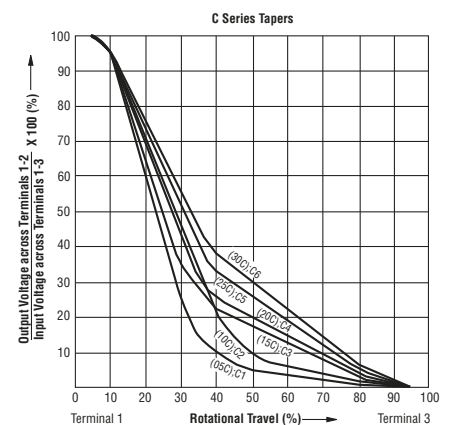
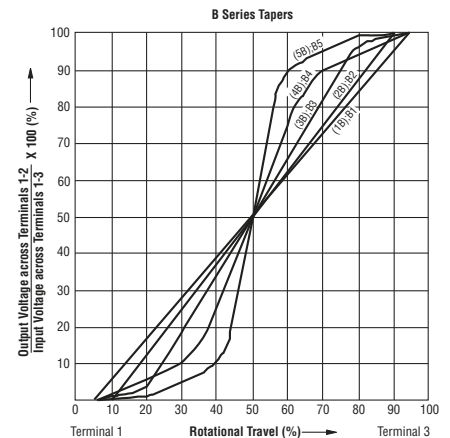
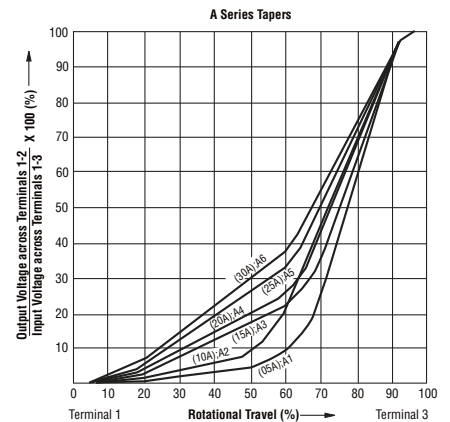
Flatted Shaft



Slotted Shaft



Tapers



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

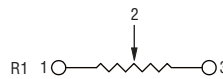
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal

Resistance Code
(See Standard Resistance Table)

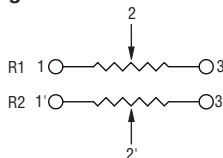
Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number

Schematics

Single Gang



Dual Gang



REV. 06/21

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Users should verify actual device performance in their specific applications.

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