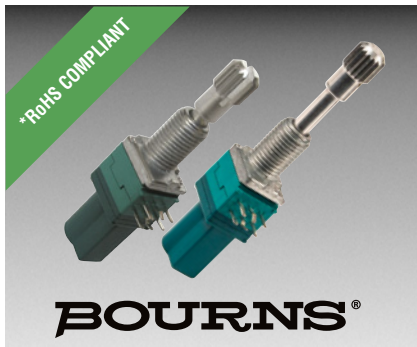




Features

- Carbon element
- Assortment of resistance tapers
- Push latching shaft
- Flatted, knurled and slotted shaft styles
- Center detent option



PTP90 Series Panel Control w/Push Latching Shaft

Electrical Characteristics

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

Environmental Characteristics

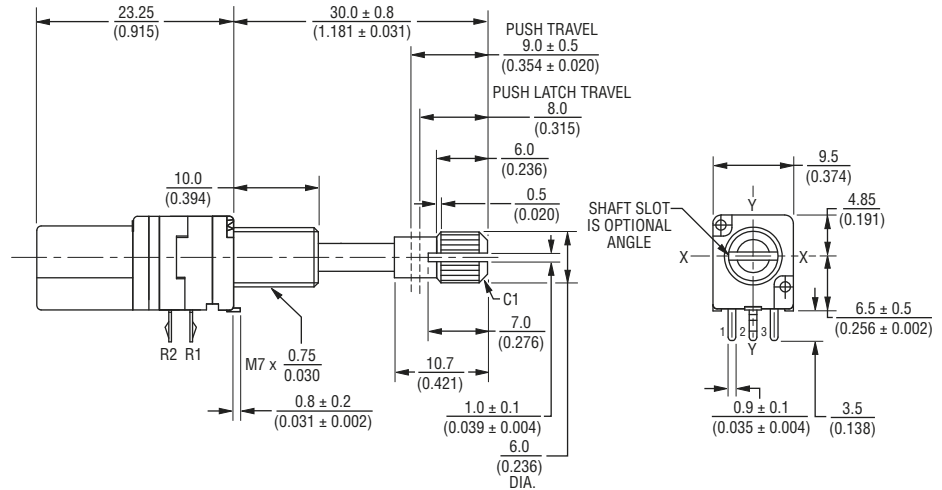
Operational Life	 15,000 cycles
TR Shift	 ±15 %
Operating Temperature Range	 -10 °C to +55 °C
Resistance to Solder Heat	 ±5 %
IP Rating	 IP 40
Moisture Sensitivity Level	 1
ESD Classification (HBM)	 N/A

Mechanical Characteristics

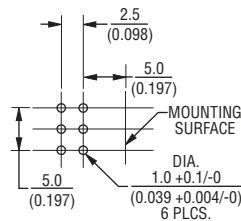
Mechanical Angle	 310 ° max.
Operating Torque	 20~250 gf-cm
Stop Strength	 4 kgf-cm max.
Mounting Torque	 10 kgf-cm max.
Shaft Push Latch Force	 40~500 gf
Push Latch Operating Life	 10,000 cycles
Soldering Condition	
Manual	 300 °C ±5 °C for 3 sec.
Wave	 260 °C ±5 °C for 5 sec.
Wash	 Not recommended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

Product Dimensions

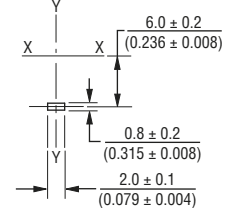
(Shown with Knurled Shaft)



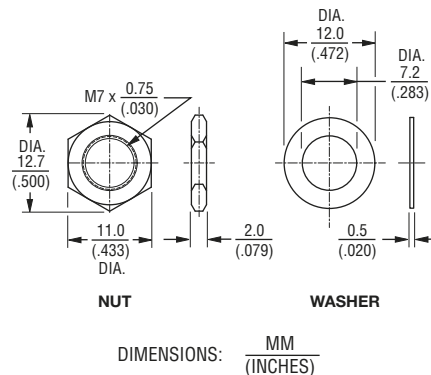
Mounting Hole Detail



Locating Lug Detail



Hardware



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



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

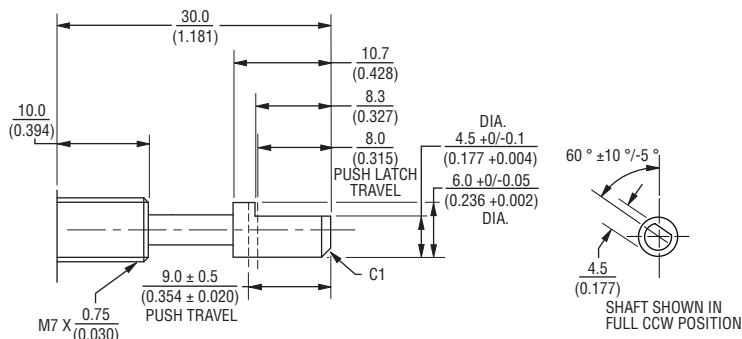
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

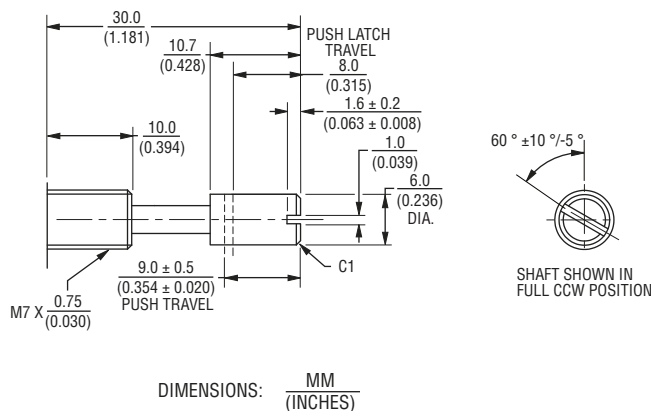
BOURNS®

Additional Shaft Styles

Flatted Shaft



Slotted Shaft



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

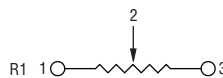
How To Order

PTP90 2 - 0 30 K - 103 B2

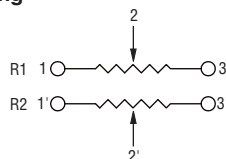
- Model Number Designator
PTP90 = Panel Control w/Push Latching Shaft
- Number of Sections
1 = Single Gang
2 = Dual Gang
- Center Detent
0 = No Detent
1 = Center Detent
- Shaft Length (FMS)
30 = 30 mm
- Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal
- Resistance Code
(See Standard Resistance Table)
- Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number

Schematics

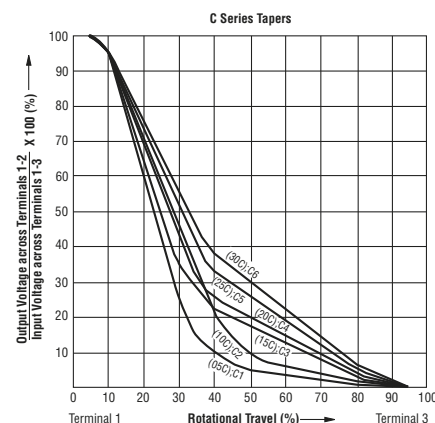
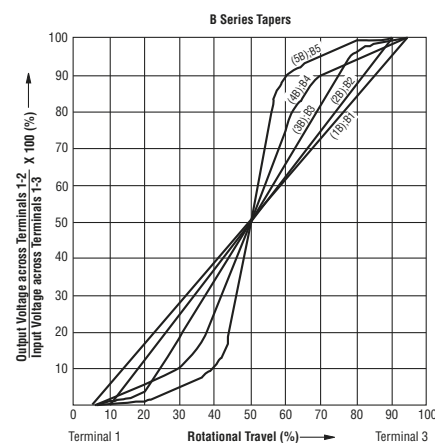
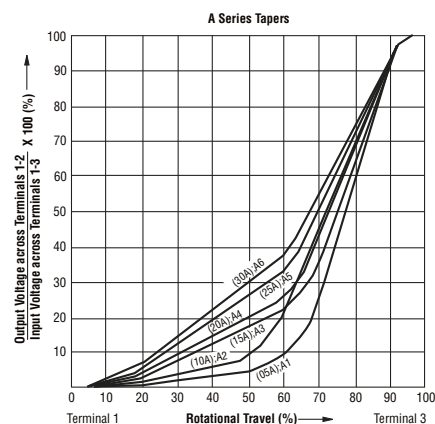
Single Gang



Dual Gang



Tapers



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Users should verify actual device performance in their specific applications.

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REV. 11/18

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