

## Features

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



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

## 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 %  
 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 Noise ..... 100 mV max.  
 Operating Voltage ..... 50 VAC / 10 VDC

### Environmental Characteristics

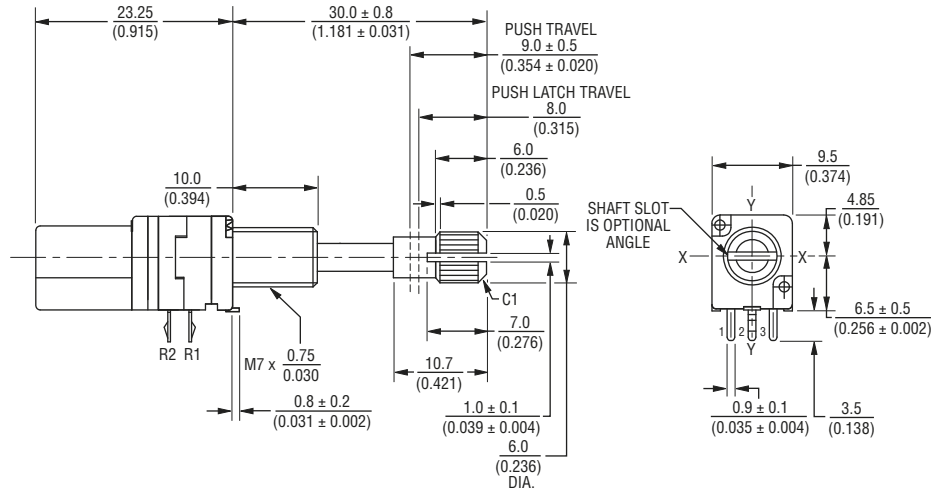
Operational Life ..... 15,000 cycles  
 TR Shift ..... ±15 %  
 Operating Temperature Range ..... -10 °C to +55 °C  
 Resistance to Solder Heat ..... ±5 %  
 IP Rating ..... IP 40  
 Moisture Sensitivity Level ..... 1  
 ESD Classification (HBM) ..... N/A

### Mechanical Characteristics

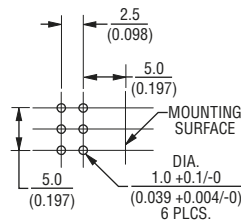
Mechanical Angle ..... 310 ° max.  
 Operating Torque ..... 20~250 gf-cm  
 Stop Strength ..... 4 kgf-cm max.  
 Mounting Torque ..... 10 kgf-cm max.  
 Shaft Push Latch Force ..... 40~500 gf  
 Push Latch Operating Life ..... 10,000 cycles  
 Soldering Condition  
 Manual ..... 300 °C ±5 °C for 3 sec.  
 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

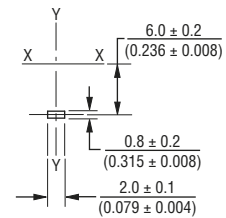
(Shown with Knurled Shaft)



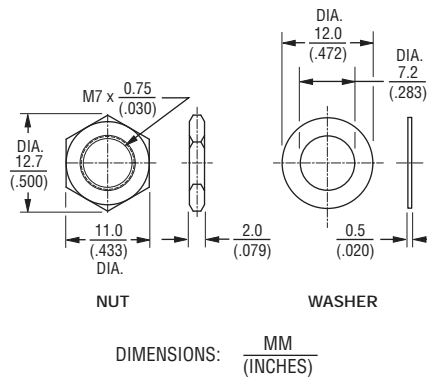
### Mounting Hole Detail



### 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](http://www.P65Warnings.ca.gov)

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

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# Applications

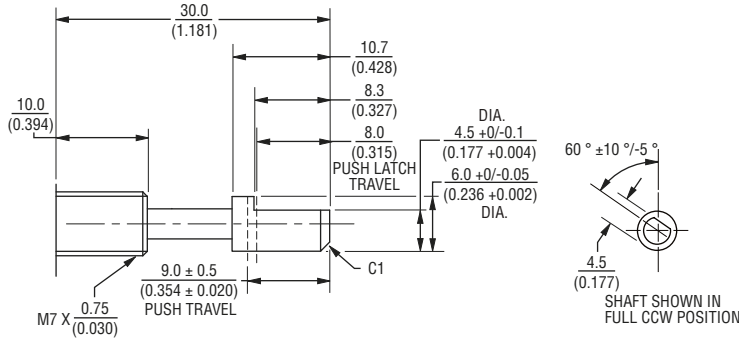
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

## PTP90 Series Panel Control w/Push Latching Shaft

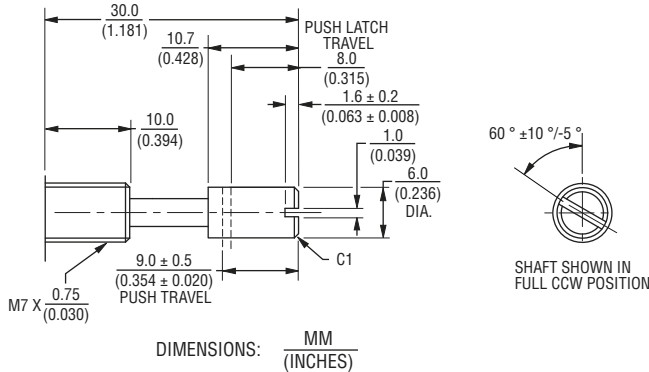


### Additional Shaft Styles

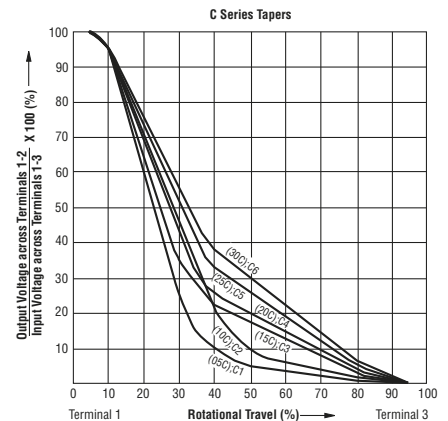
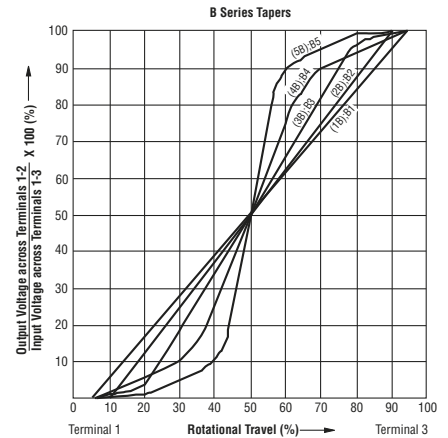
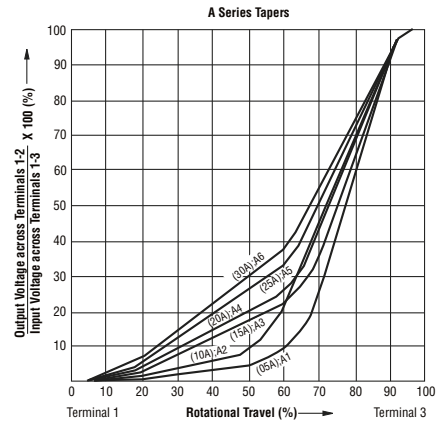
#### Flatted Shaft



#### Slotted Shaft



### Tapers



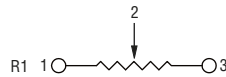
### How To Order

**PTP90 2 - 0 30 K - 103 B2**

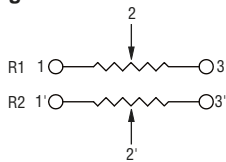
- Model Number
- Designator  
PTP90 = Panel Control w/Push Latching Shaft
- Number of Sections  
1 = Single Gang  
2 = Dual Gang
- Center Detent  
0 = No Detent  
1 = Center Detent
- Shaft Length (FMS)  
30 = 30 mm
- Shaft Style  
F = Flatted Metal  
K = Knurled (18 tooth serrated)  
S = Slotted Metal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

### Schematics

#### Single Gang



#### Dual Gang



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