

## 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 %
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

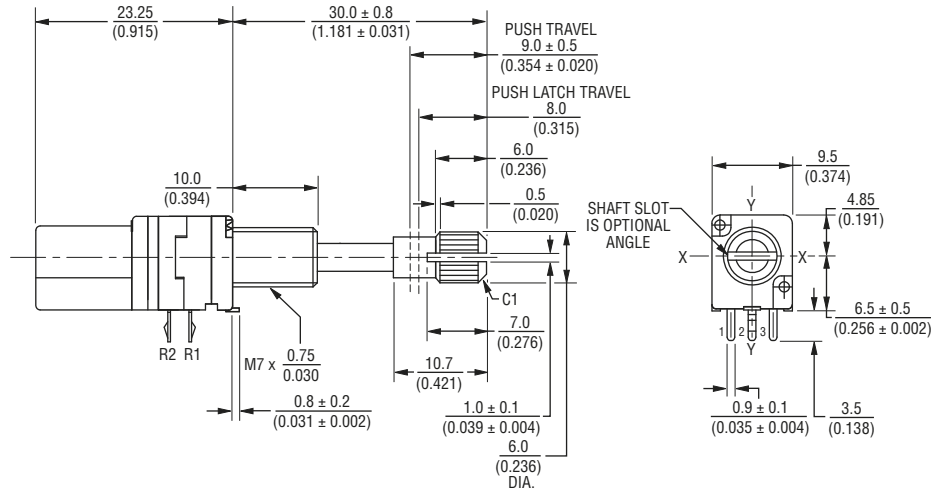
Operational Life	..... 15,000 cycles
TR Shift	.....±15 %
Operating Temperature Range	.....-10 °C to +55 °C
Resistance to Solder Heat	.....±5 %
IP Rating	.....IP 40
Moisture Sensitivity Level	..... 1
ESD Classification (HBM)	..... N/A

### Mechanical Characteristics

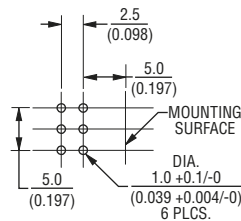
Mechanical Angle	.....310 ° max.
Operating Torque	.....20~250 gf-cm
Stop Strength	..... 4 kgf-cm max.
Mounting Torque	..... 10 kgf-cm max.
Shaft Push Latch Force	.....40~500 gf
Push Latch Operating Life	..... 10,000 cycles
Soldering Condition	
Manual	.....300 °C ±5 °C for 3 sec.
Wave	.....260 °C ±5 °C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

### Product Dimensions

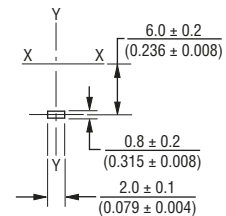
(Shown with Knurled Shaft)



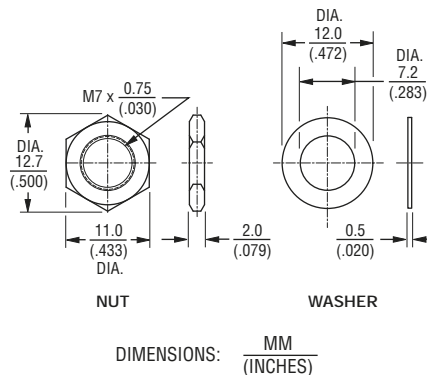
### Mounting Hole Detail



### 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

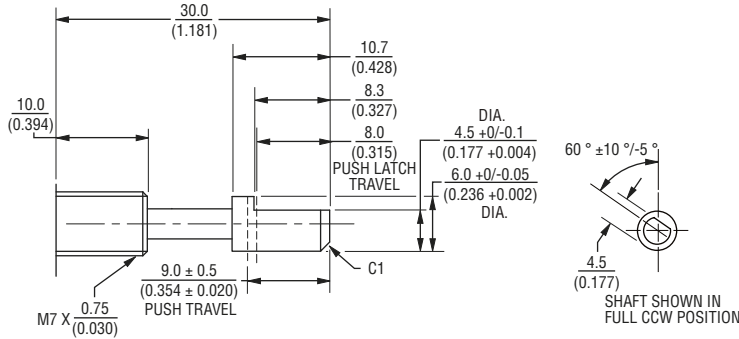
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

## PTP90 Series Panel Control w/Push Latching Shaft

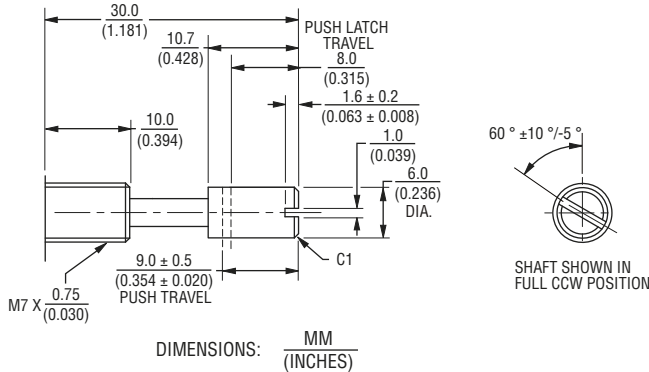


### Additional Shaft Styles

#### Flatted Shaft



#### Slotted Shaft



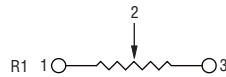
### How To Order

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

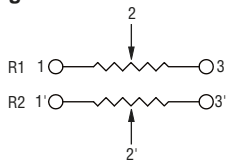
- Model Number
- Designator
  - PTP90 = Panel Control w/Push Latching Shaft
- Number of Sections
  - 1 = Single Gang
  - 2 = Dual Gang
- Center Detent
  - 0 = No Detent
  - 1 = Center Detent
- Shaft Length (FMS)
  - 30 = 30 mm
- Shaft Style
  - F = Flatted Metal
  - K = Knurled (18 tooth serrated)
 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

### Schematics

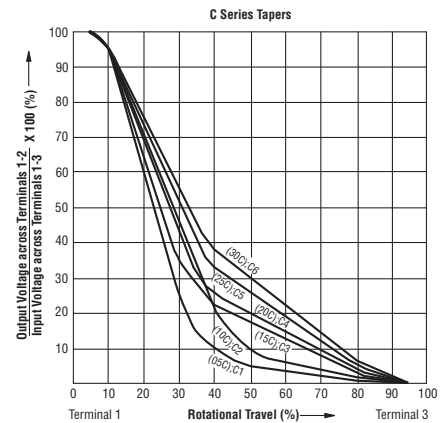
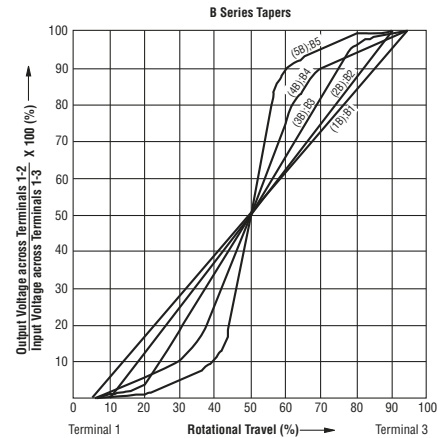
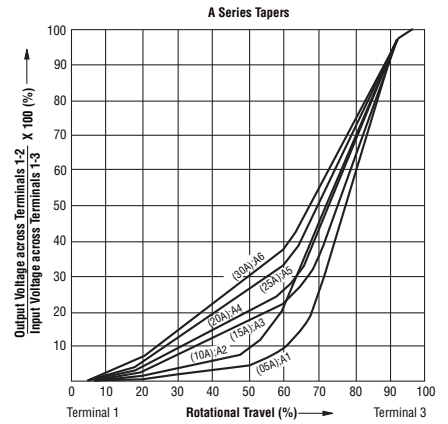
#### Single Gang



#### Dual Gang



### Tapers



REV. 10/19

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