

## 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

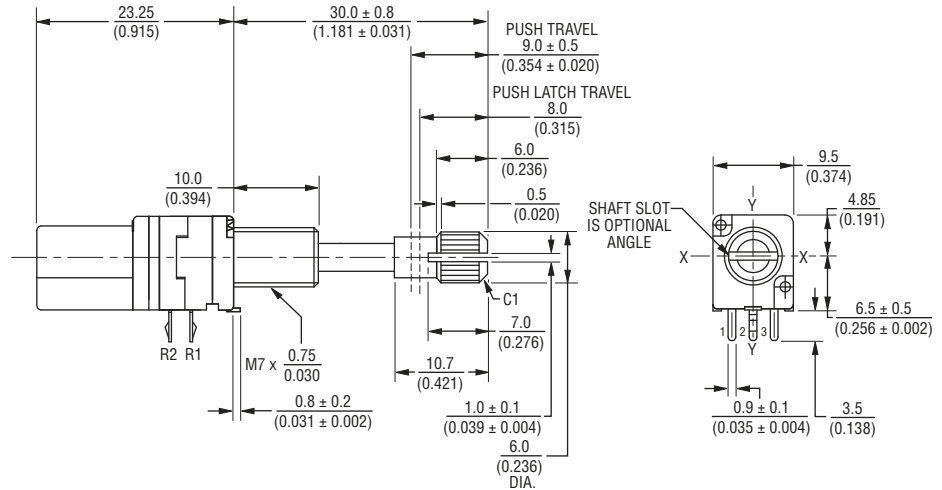
Operational Life	..... 15,000 cycles
TR Shift	..... ±15 %
Operating Temperature Range	..... -10 °C to +55 °C
Resistance to Solder Heat	..... ±5 %
IP Rating	..... IP 40
Moisture Sensitivity Level	..... 1
ESD Classification (HBM)	..... N/A

### Mechanical Characteristics

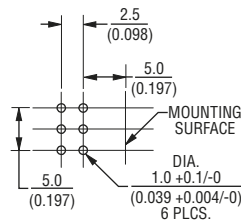
Mechanical Angle	..... 310 ° max.
Operating Torque	..... 20~250 gf-cm
Stop Strength	..... 4 kgf-cm max.
Mounting Torque	..... 10 kgf-cm max.
Shaft Push Latch Force	..... 40~500 gf
Push Latch Operating Life	..... 10,000 cycles
Soldering Condition	
Manual	..... 300 °C ±5 °C for 3 sec.
Wave	..... 260 °C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

### Product Dimensions

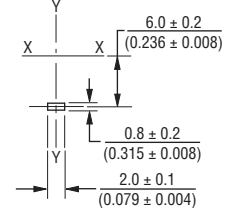
(Shown with Knurled Shaft)



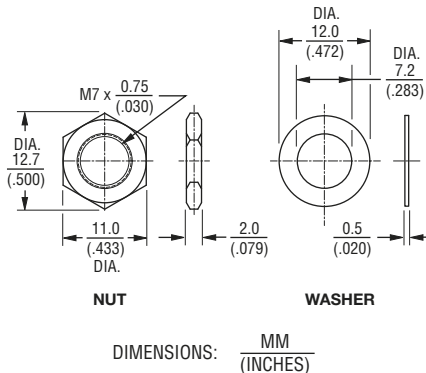
### Mounting Hole Detail



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

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.  
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## Applications

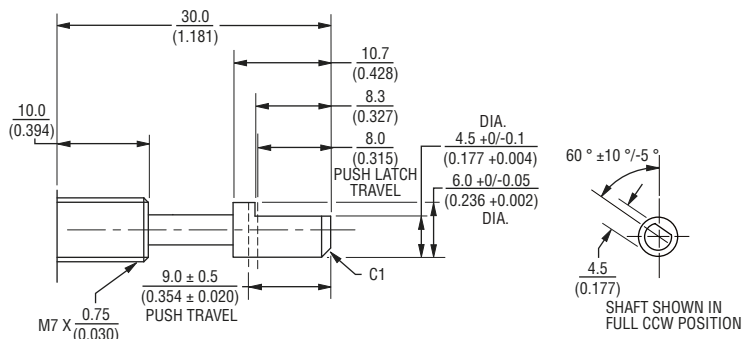
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

## PTP90 Series Panel Control w/Push Latching Shaft

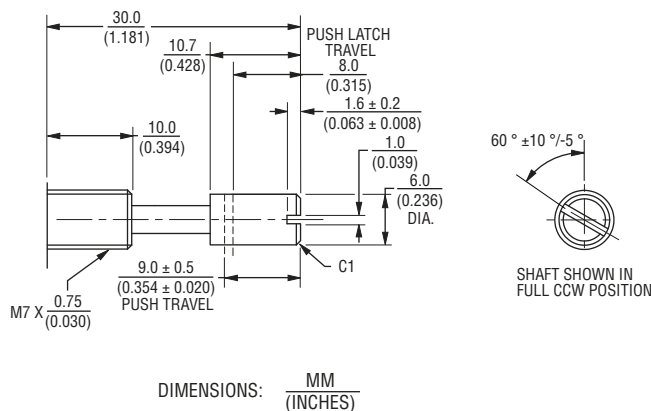
**BOURNS®**

### Additional Shaft Styles

#### Flatted Shaft



#### Slotted Shaft



### 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

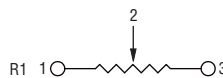
Shaft Style  
F = Flatted Metal  
K = Knurled (18 tooth serrated)  
S = Slotted Metal

Resistance Code  
(See Standard Resistance Table)

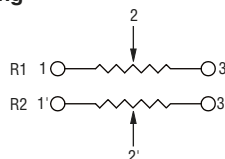
Resistance Taper (See Taper Charts)  
Taper Series followed by Curve Number

### Schematics

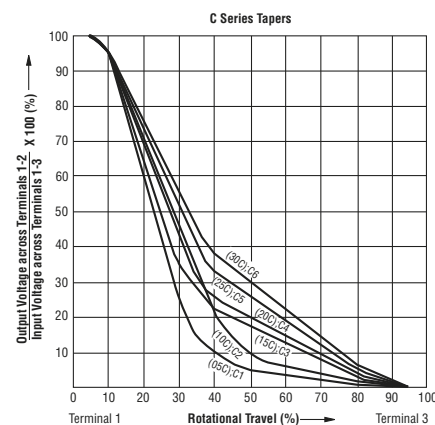
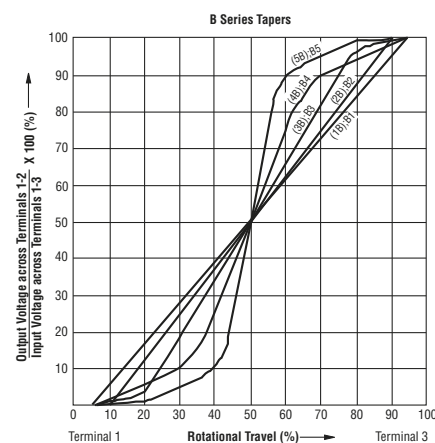
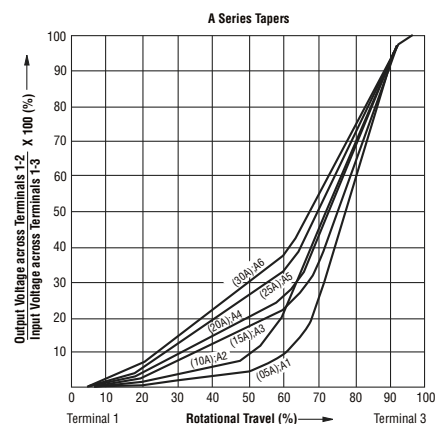
#### Single Gang



#### Dual Gang



### Tapers



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Users should verify actual device performance in their specific applications.

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