



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

Mechanical Characteristics

Mechanical Angle310 ° max.

Operating Torque.....20~250 gf-cm

Stop Strength..... 4 kgf-cm min.

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

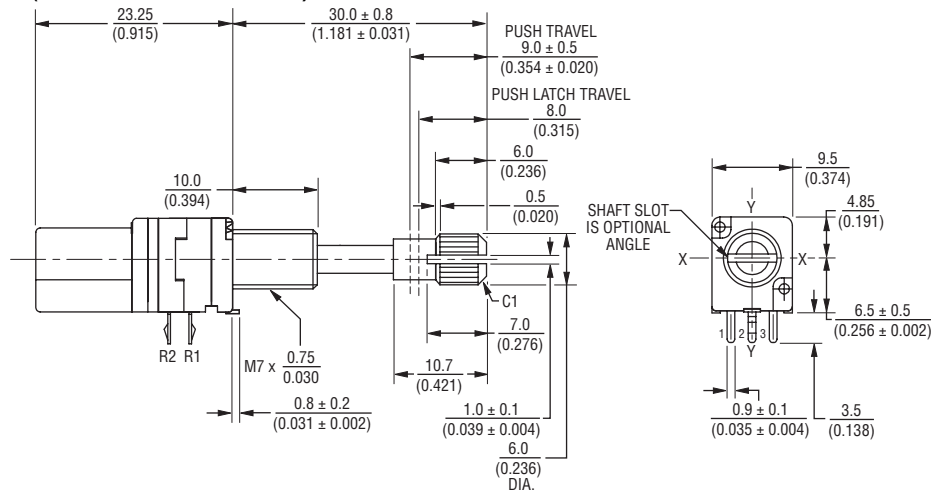
HardwareOne flat washer and
one mounting nut supplied with
each potentiometer

Standard Resistance Table

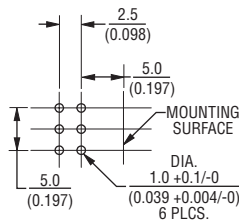
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Product Dimensions

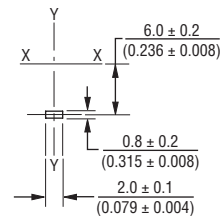
(Shown with Knurled Shaft)



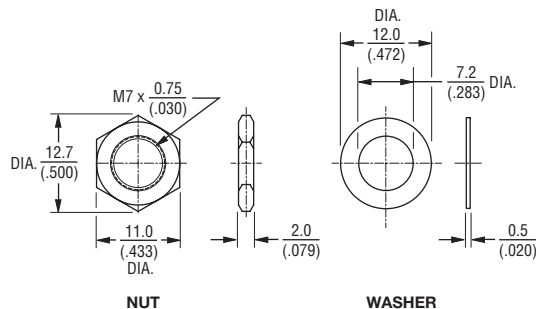
Mounting Hole Detail



Locating Lug Detail



Hardware



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

Applications

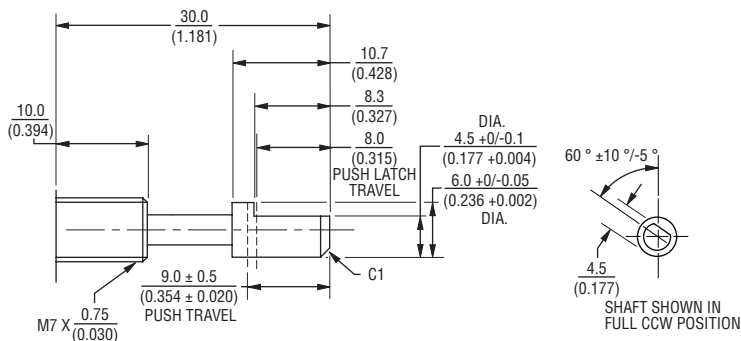
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Automotive sound systems
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

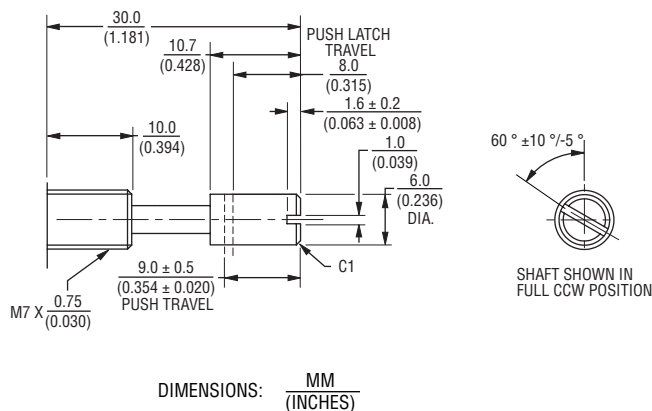
BOURNS®

Additional Shaft Styles

Flatted Shaft

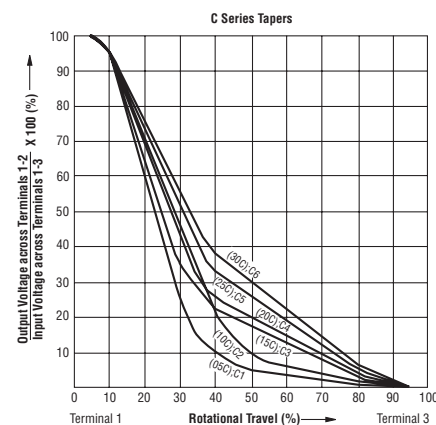
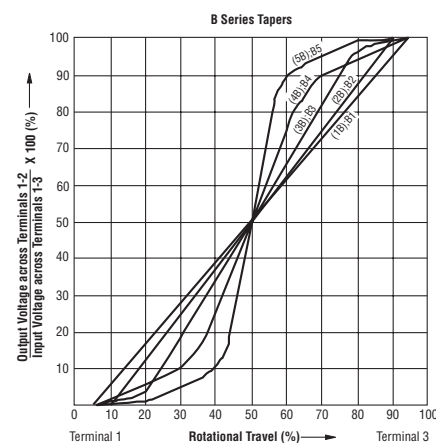
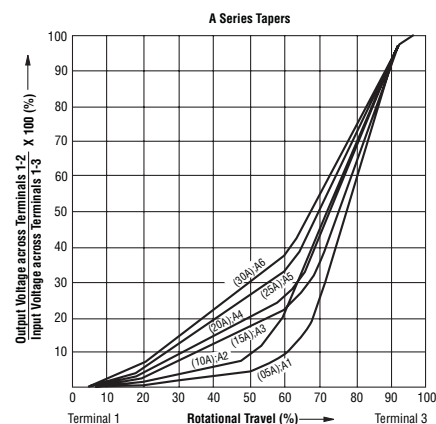


Slotted Shaft



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

Tapers



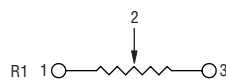
How To Order

PTP90 2 - 0 30 K - 103 B2

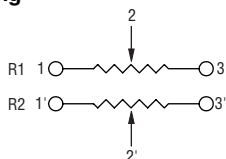
Model Number
Designator
PTP90 = Panel Control
w/Push Latching Shaft
Number of Sections
1 = Single Gang
2 = Dual Gang
Center Detent
0 = No Detent
1 = Center Detent
Shaft Length (FMS)
30 = 30 mm
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal
Resistance Code
(See Standard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

Schematics

Single Gang



Dual Gang



REV. 10/11

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.