



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

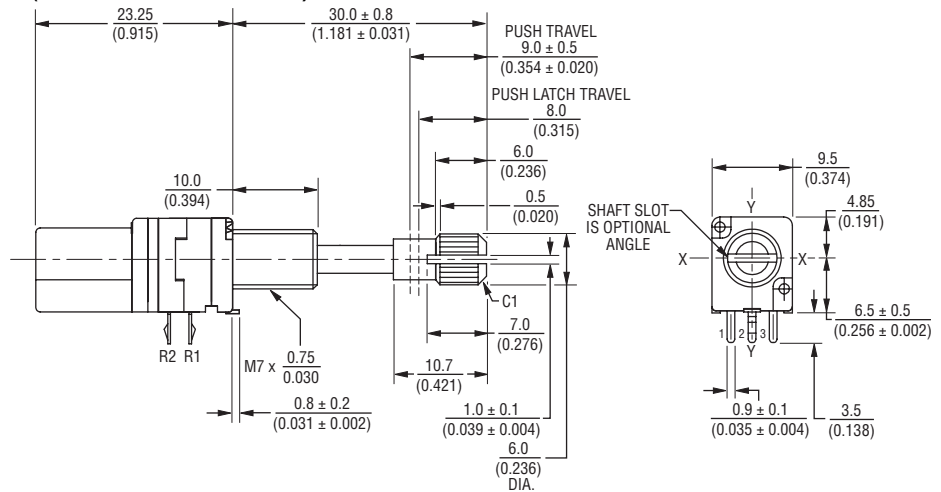
Mechanical Angle	310 ° max.
Operating Torque	20~250 gf-cm
Stop Strength	4 kgf-cm min.
Mounting Torque	10 kgf-cm max.
Shaft Push Latch Force	40~500 gf
Push Latch Operating Life	10,000 cycles
Soldering Condition	
Manual	300 °C ±5 °C for 3 sec.
Wave	260 °C ±5 °C for 5 sec.
Wash	Not recommended
Hardware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

Standard Resistance Table

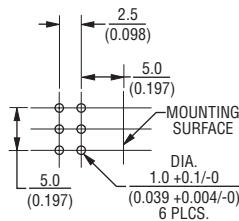
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Product Dimensions

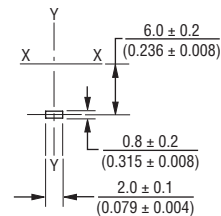
(Shown with Knurled Shaft)



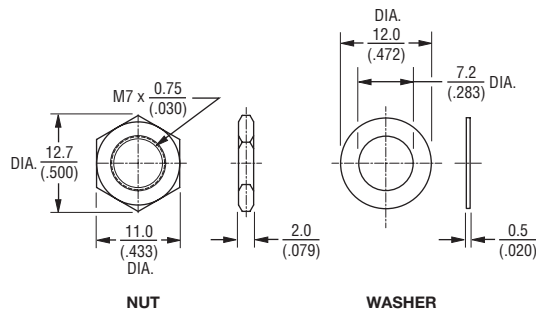
Mounting Hole Detail



Locating Lug Detail



Hardware



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

Applications

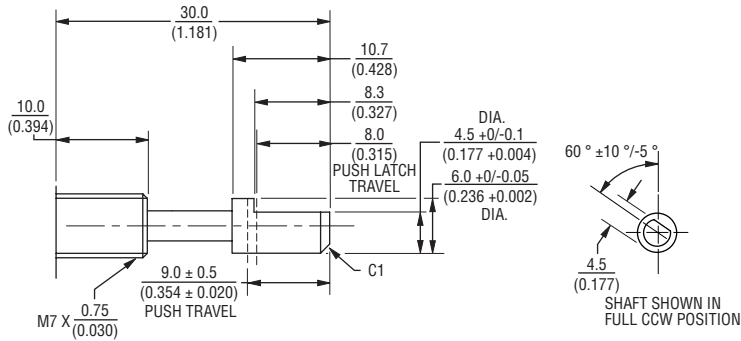
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Automotive sound systems
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

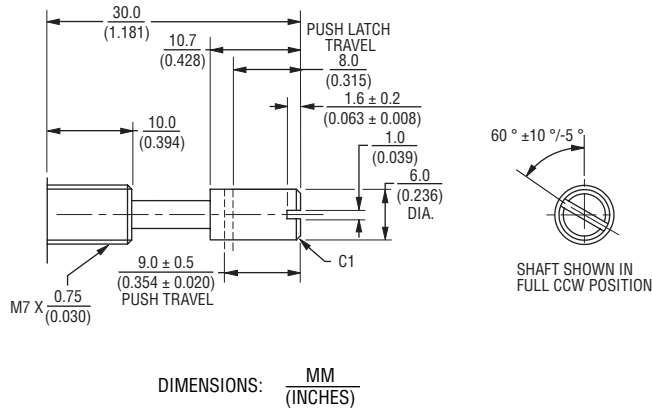
BOURNS®

Additional Shaft Styles

Flatted Shaft

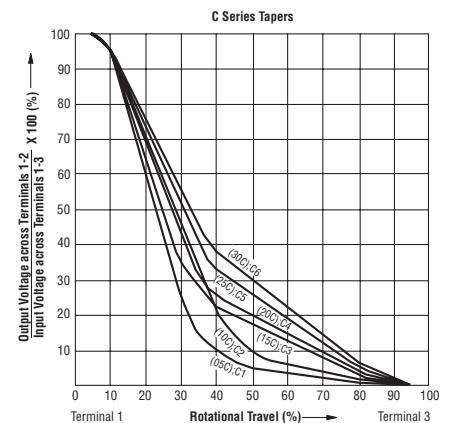
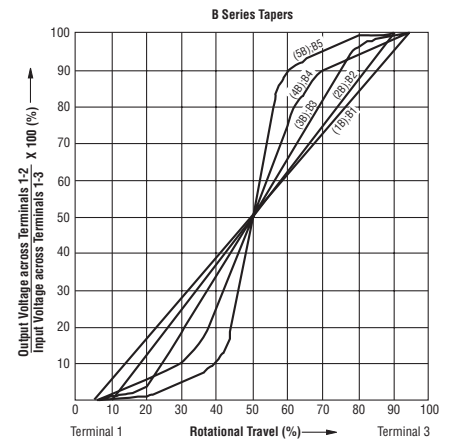
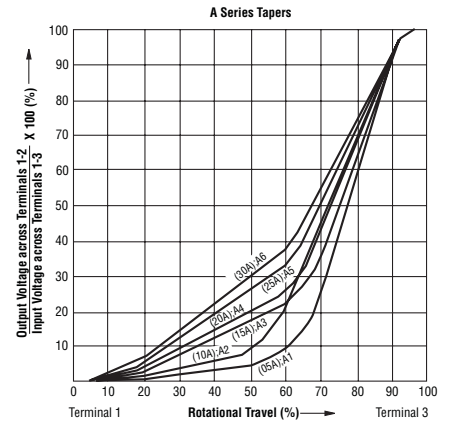


Slotted Shaft



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

Tapers



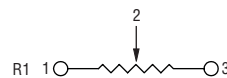
How To Order

PTP90 2 - 0 30 K - 103 B2

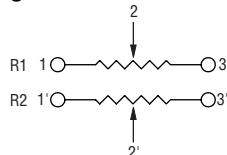
Model Number
Designator
PTP90 = Panel Control
w/Push Latching Shaft
Number of Sections
1 = Single Gang
2 = Dual Gang
Center Detent
0 = No Detent
1 = Center Detent
Shaft Length (FMS)
30 = 30 mm
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal
Resistance Code
(See Standard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