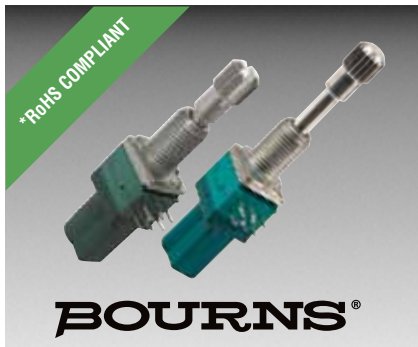




- Carbon element
- Assortment of resistance tapers
- Push latching shaft
- Flatted, knurled and slotted shaft styles
- Center detent option



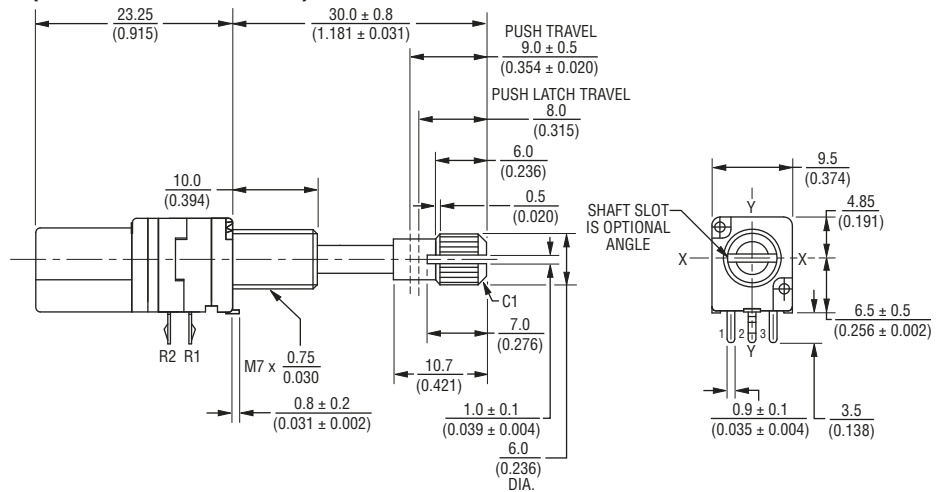
PTP90 Series Panel Control w/Push Latching Shaft

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

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 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

(Shown with Knurled Shaft)



The image contains two technical drawings. The first drawing is of a hexagonal nut with a central hole. It shows the top view with dimensions: outer diameter (DIA. 12.7 (.500)), inner hole diameter (DIA. 7.2 (.283)), and hexagonal width across flats (11.0 (.433)). It also shows a side view with a height of 2.0 (.079). A detail view of the thread is shown as M7 x 0.75 (.030). The second drawing is of a flat washer. It shows the top view with dimensions: outer diameter (DIA. 12.0 (.472)), inner hole diameter (DIA. 7.2 (.283)), and thickness (0.5 (.020)). It also shows a side view with a thickness of 0.5 (.020).

NUT

WASHER

DIMENSIONS: MM
(INCHES)

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



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

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Applications

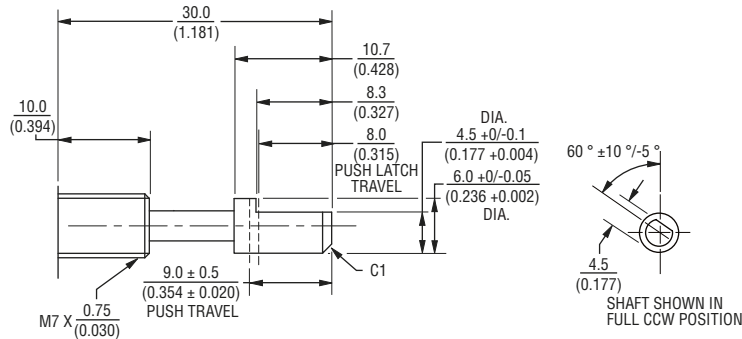
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

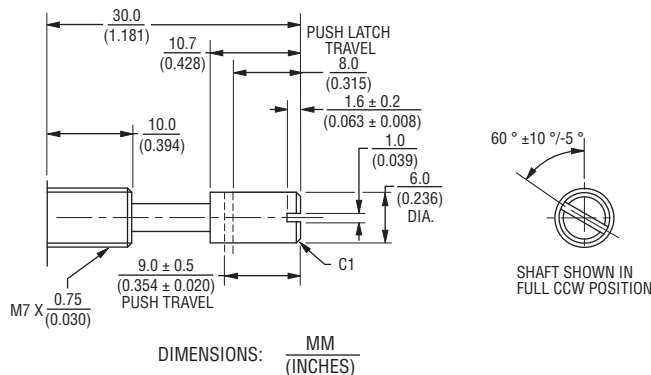
BOURNS®

Additional Shaft Styles

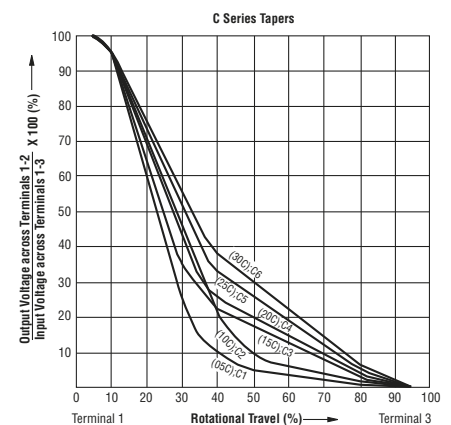
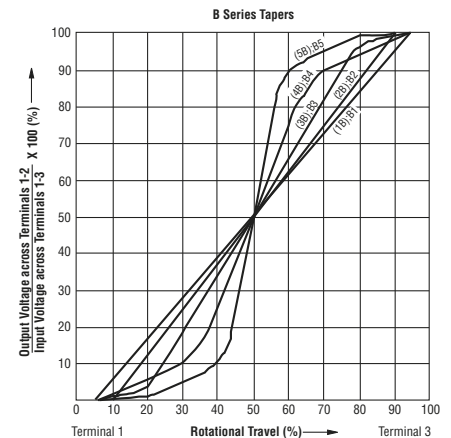
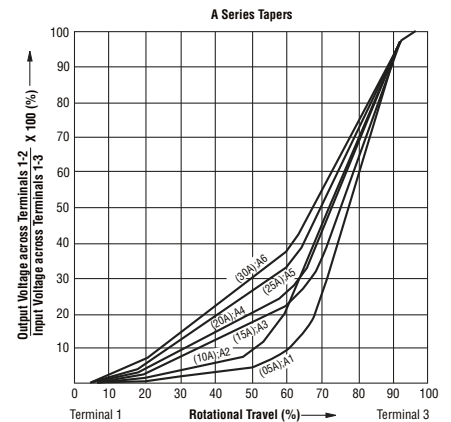
Flatted Shaft



Slotted Shaft



Tapers



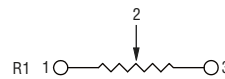
How To Order

PTP90 2 - 0 30 K - 103 B2

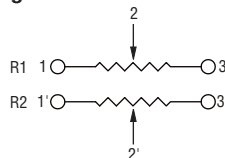
Model Number
Designator
PTP90 = Panel Control
w/Push Latching Shaft
Number of Sections
1 = Single Gang
2 = Dual Gang
Center Detent
0 = No Detent
1 = Center Detent
Shaft Length (FMS)
30 = 30 mm
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal
Resistance Code
(See Standard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

Schematics

Single Gang



Dual Gang



REV. 06/21

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Users should verify actual device performance in their specific applications.

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