Features

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

BOURNS® PRO AUDIO

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

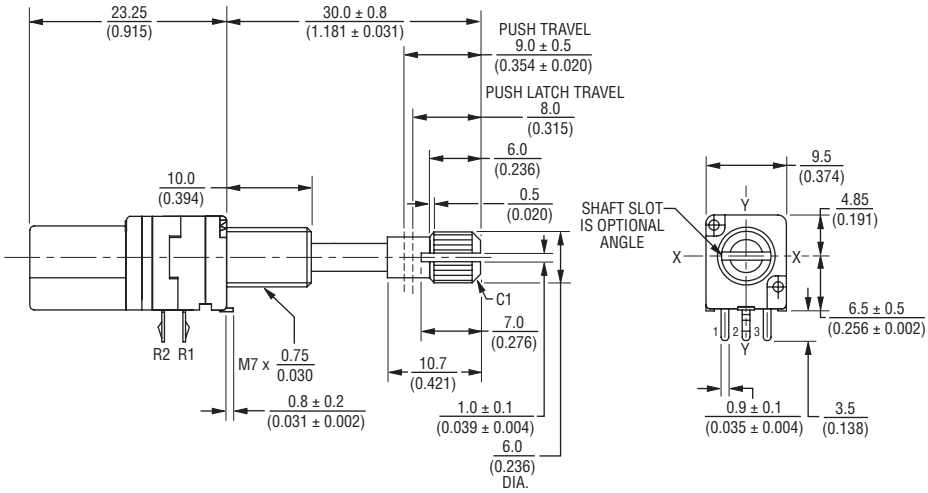
Mechanical Angle .....310 ° max.
Operating Torque.....20~250 gf-cm
Stop Strength..... 4 kgf-cm min.
Mounting Torque..... 10 kgf-cm max.
Shaft Push Latch Force.....40~500 gf
Push Latch Operating Life .....10,000 cycles
Soldering Condition
Manual ..... 300 °C ±5 °C for 3 sec.
Wave ..... 260 °C ±5 °C for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

Standard Resistance Table

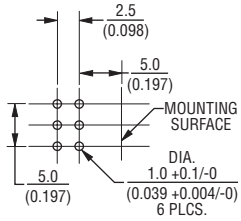
Resistance (Ohms)	Resistance Code
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
500,000	504
1,000,000	105

Product Dimensions

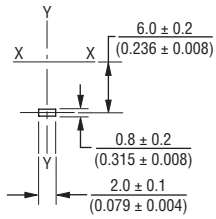
(Shown with Knurled Shaft)



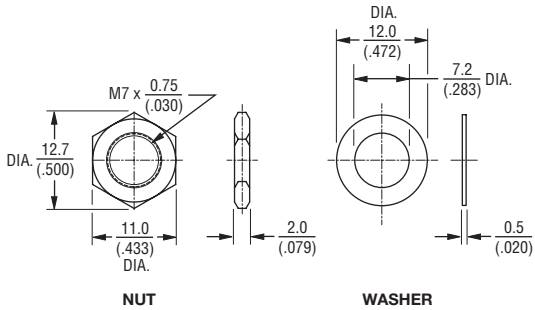
Mounting Hole Detail



Locating Lug Detail



Hardware



DIMENSIONS: MM / (INCHES)

*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Applications

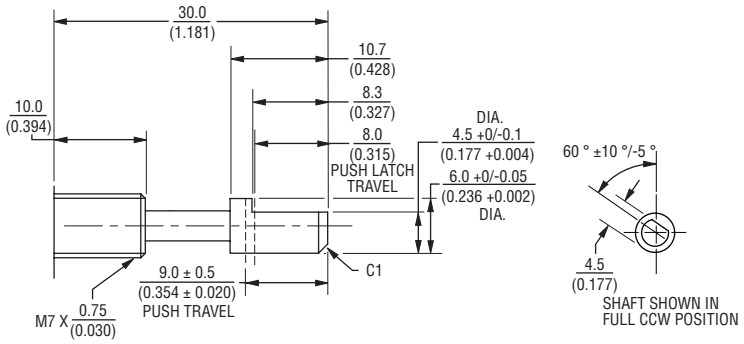
- Multimedia sound systems
- Mixers / drum machines / DJ equipment
- Automotive sound systems
- Portable electronics
- Portable appliances

PTP90 Series Panel Control w/Push Latching Shaft

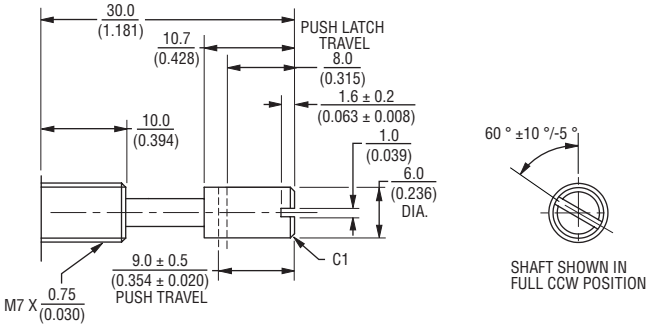
BOURNS®

Additional Shaft Styles

Flatted Shaft

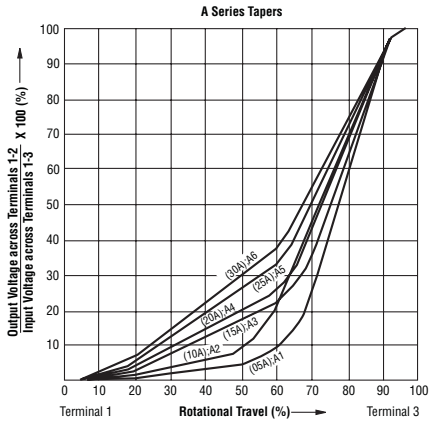


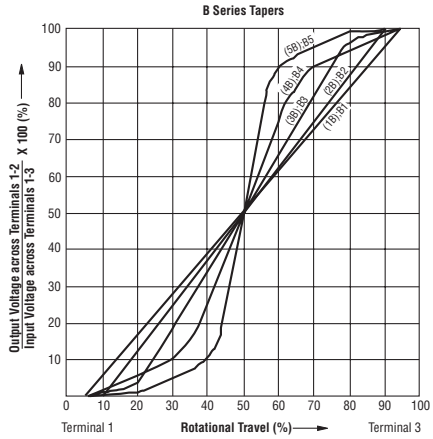
Slotted Shaft

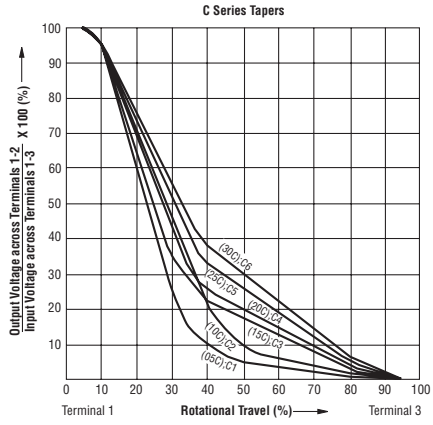


DIMENSIONS: MM (INCHES)

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

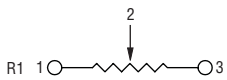
Shaft Style
F = Flatted Metal
K = Knurled (18 tooth serrated)
S = Slotted Metal

Resistance Code
(See Standard Resistance Table)

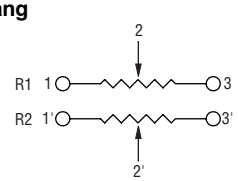
Resistance Taper (See Taper Charts)
Taper Series followed by Curve Number

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.