Features

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

This series is currently available but not recommended for new designs.

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, Linear, Audio

Power Rating
Linear ................ 0.05 watt
Audio ................... 0.025 watt

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
........................................... ±10 %

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

Hardware Specifications

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
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<tbody>
<tr>
<td>1,000</td>
<td>102</td>
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<td>202</td>
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</table>

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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

#### Additional Shaft Styles

**Flatted Shaft**

![Flatted Shaft Diagram]

**Slotted Shaft**

![Slotted Shaft Diagram]

**Dimensions:**
- MM (Inches)
  - 30.0 (1.181)
  - 10.0 (0.394)
  - 9.0 ± 0.5 (0.354 ± 0.020)

#### Tapers

**A Series Tapers**

- Shaft shown in full CCW position

**B Series Tapers**

- Shaft shown in full CCW position

**C Series Tapers**

- Shaft shown in full CCW position

#### How To Order

**Model Number**
- PTP90 2 - 0 30 K - 103 B2

**Model 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**

![Single Gang Schematic]

**Dual Gang**

![Dual Gang Schematic]
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