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 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

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
</tr>
<tr>
<td>2,000</td>
<td>202</td>
</tr>
<tr>
<td>5,000</td>
<td>502</td>
</tr>
<tr>
<td>10,000</td>
<td>103</td>
</tr>
<tr>
<td>20,000</td>
<td>203</td>
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<td>50,000</td>
<td>503</td>
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<td>100,000</td>
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<td>204</td>
</tr>
<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

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http://www.potentiometers.com
PTP90 Series Panel Control w/Push Latching Shaft

Additional Shaft Styles

Flatted Shaft

Slotted Shaft

How To Order

Model Number
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. 02/15

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

For more information about this product, visit our website at: www.potentiometers.com

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