Features
- Carbon element
- Assortment of resistance tapers
- Variety of shaft lengths
- Dual gang element
- Flattened, slotted and knurled shaft styles
- Center detent option
- Rotary switch option

Electrical Characteristics
Standard Resistance Range
- 1 k 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
Standard Taper
- Linear, Audio
Power Rating
- 3 A @ 16 VDC

Mechanical Characteristics
Mechanical Angle
- 300° ±3°
Operating Torque
- 20–250 gf-cm
Stop Strength
- 10 gf-cm max.
Mounting Torque
- 10 k gf-cm max.
Shaft Push/Pull Strength
- 10 kgf max.
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

Switch Characteristics
Power Rating
- 3 A @ 16 VDC
Contact Resistance
- 100 milhms max.
Dielectric Strength
- Bushing to Terminals: 300 VAC
- Switch Terminals: 50 VAC
Insulation Resistance
- Bushing to Terminals @ 250 VAC
- Switch Terminals @ 50 VAC
- 100 megohms
Switch Type
- Rotary
Contact Arrangement
- SPST
Switching Angle
- 50° max.
Detent Torque
- 500 kgf-cm
Operating Life
- 10,000 cycles

Switch Circuit
- PTH901
- PTH902

WARNING Cancer and Reproductive Harm
www.P65Warnings.ca.gov
Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.
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Applications

- Multimedia sound systems
- Mixers / drums / DJ equipment
- Portable electronics
- Portable appliances

**PTH90 Series Dual Concentric Shaft Panel Control w/Rotary Switch**

**Additional Shaft Styles**

<table>
<thead>
<tr>
<th>Knurled Shaft</th>
<th>Slotted Shaft</th>
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</thead>
<tbody>
<tr>
<td>![Knurled Shaft Diagram]</td>
<td>![Slotted Shaft Diagram]</td>
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</tbody>
</table>

**Hardware**

<table>
<thead>
<tr>
<th>Nut</th>
<th>Washer</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Nut Diagram]</td>
<td>![Washer Diagram]</td>
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</tbody>
</table>

**How To Order**

- **Model Number**
  - PTH90 2 - 0 30 F - 103 B2

**Standard Resistance Table**

<table>
<thead>
<tr>
<th>Resistance (Ohms)</th>
<th>Resistance Code</th>
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</thead>
<tbody>
<tr>
<td>1,000</td>
<td>102</td>
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<tr>
<td>2,000</td>
<td>202</td>
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<tr>
<td>5,000</td>
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<tr>
<td>500,000</td>
<td>504</td>
</tr>
<tr>
<td>1,000,000</td>
<td>105</td>
</tr>
</tbody>
</table>

**Applications**

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