

Features

- Carbon element
- Ganging up to 8 sections available
- Knurled and flatted shaft styles
- Audio taper option
- Tracking error within 3 dB
- RoHS compliant*



PTD90 Series - 9 mm Multi-Ganged Potentiometer

Electrical Characteristics

Standard Resistance Range1 K ohms to 1 M ohms Total Resistance Tolerance±10 % or ±20 % Standard TapersLinear & audio Maximum Operating Voltage 150 VAC, 20 VDC

Rated Power Linear Taper0.05 watts Audio Taper......0.025 watts

Noise 100 mV max. Insulation Resistance @ 250 VDC100 M ohms

Dielectric Withstanding Voltage300 VAC

End Resistance20 ohms max. Tracking Error (-40 dB to 0 dB)......±3 dB

Environmental Characteristics

Operating Temperature

.....-10 °C to +50 °C Rotational Life 15,000 cycles IP Rating.....IP 40 Moisture Sensitivity Level.....1 ESD Classification (HBM).....N/A

Mechanical Characteristics

Mechanical Angle300 $^{\circ}$ ±10 $^{\circ}$ Running Torque10 to 250 g-cm Stop Strength 4.0 kg-cm Shaft Push/Pull Strength5.0 kgf min. Shaft Wobble.....0.6 x L/20 mm p-p max. Mounting Torque 7.0 kg-cm min. Soldering Condition

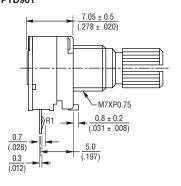
Manual Soldering

......96.5 Sn/3.0 Ag/0.5 Cu solid wire or no-clean rosin cored wire 270 °C max. for 3 seconds

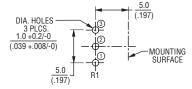
Wave Soldering96.5 Sn/3.0 Ag/0.5 Cu solder with no-clean flux 260 °C max. for 5 seconds Wash Process Not recommended Mounting Hardware...... One flat washer and one mounting nut supplied per potentiometer

Product Dimensions

PTD901



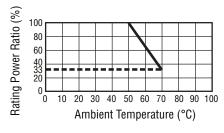
RECOMMENDED PCB LAYOUT



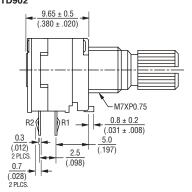
SCHEMATIC

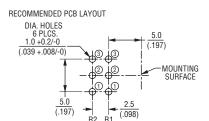
DIMENSIONS: (INCHES)

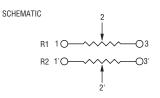
Derating Curve



PTD902







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		

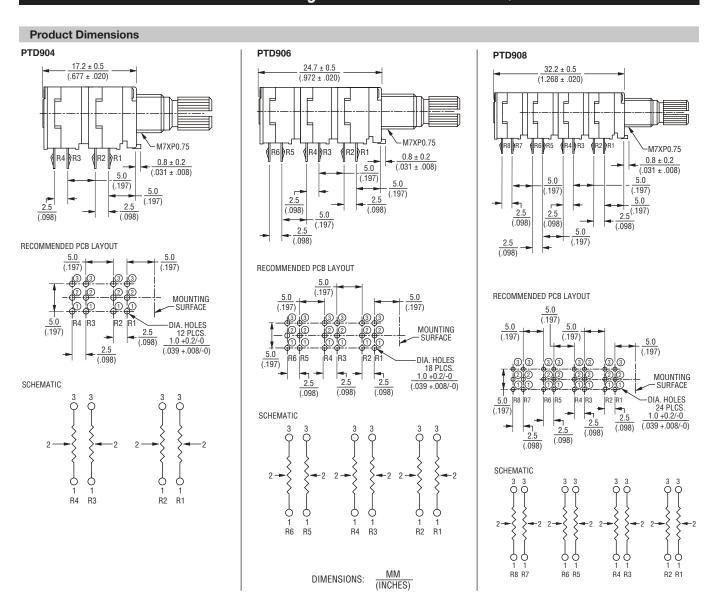


Applications

- Audio/TV sets
- Amplifiers/mixers/drum machines/synthesizers/DJ equipment
- Multimedia sound systems
- Portable electronics

PTD90 Series - 9 mm Multi-Ganged Potentiometer

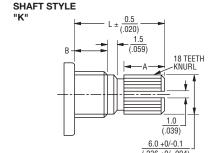
BOURNS®

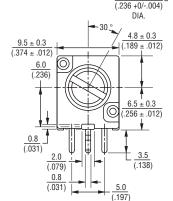


PTD90 Series - 9 mm Multi-Ganged Potentiometer

BOURNS

Product Dimensions



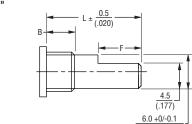


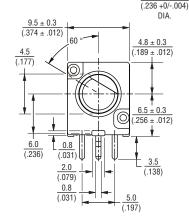
L	15 (.591)	20 (.787)	25 (.984)
В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)
А	<u>6</u> (.236)	10 (.394)	12 (.472)

SHAFT SHOWN IN CCW POSITION

DIMENSIONS: $\frac{MM}{(INCHES)}$

SHAFT STYLE





SHAFT SHOWN IN CCW POSITION

L	(.591)	(.787)	(.984)
В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)
F	<u>7</u> (.276)	<u>12</u> (.472)	12 (.472)

How To Order



No Switch

No. of Sections — • 1 = 1 Section

- 2 = 2 Sections
- 3 = 3 Sections
- 4 = 4 Sections
 5 = 5 Sections
- 6 = 6 Sections
- 8 = 8 Sections

Pin Style

- 1 = PC Pins vertical/ down facing and ±10 % Total Resistance Tolerance
- 2 = PC Pins vertical/ down facing and ±20 % Total Resistance Tolerance

Center Detent Option

0 = No Detent2 = Center Detent

Standard Shaft Length

- 15 = 15 mm
- 20 = 20 mm
- 25 = 25 mm

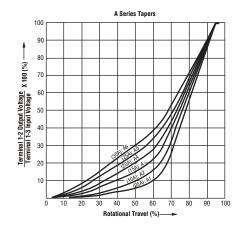
Shaft Styles -

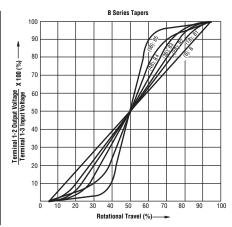
- K = Knurled Type Shaft (Metal) 18 Toothed Serration Type
- F = Flatted Metal Shaft

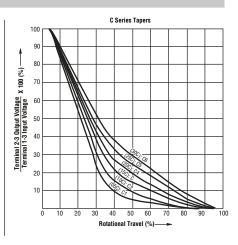
Resistance Code (See Table)

Other shaft styles available.

Tapers







REV. 11/18

 $Specifications \ are \ subject \ to \ change \ without \ notice.$

Users should verify actual device performance in their specific applications.

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PTD902-10BAP-B203 PTD902-10C5P-A203 PTD902-10DAP-B203 PTD902-20BAP-B504 PTD902-20BAP-C203
PTD904-20BAP-C203 PTD904-20CAP-C203 PTD906-20BAP-C203 PTD908-20BAP-C203 PTD901-2020K-B503
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