

Features

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

PTD90 Series - 9 mm Multi-Ganged Potentiometer

Additional Information

Click these links for more information:











TECHNICAL INVENTORY SAMPLES

Electrical Characteristics

Standard Resistance Range1 K ohms to 1 M ohms **Total Resistance Tolerance**±10 % or ±20 % Standard TapersLinear & audio Maximum Operating Voltage Rated Power Linear Taper0.05 watts Audio Taper......0.025 watts Noise 100 mV max. Insulation Resistance @ 250 VDC 100 M ohms Dielectric Withstanding Voltage

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

.....300 VAC

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

Mechanical Characteristics

Mechanical Angle300 ° ±10 ° 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

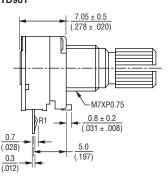
......96.5 Sn/3.0 Ag/0.5 Cu solid wire or no-clean rosin cored wire 270 °C max. for 3 seconds

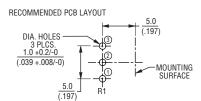
Wave Soldering

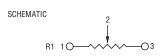
......96.5 Sn/3.0 Ag/0.5 Cu solder with no-clean flux 260 °C max. for 5 seconds Wash Process Not recommended Mounting Hardware...... One flat washer and one mounting nut supplied per potentiometer

Product Dimensions

PTD901

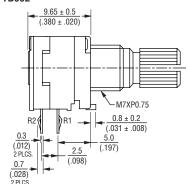


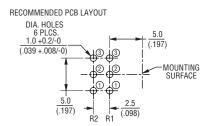


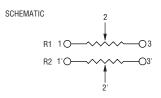


DIMENSIONS:

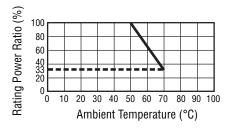
PTD902







Derating Curve



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	



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex. Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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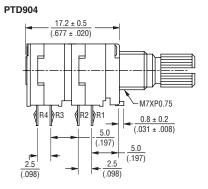
Applications

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

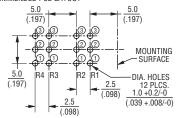
PTD90 Series - 9 mm Multi-Ganged Potentiometer

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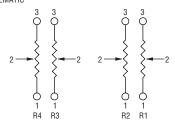
Product Dimensions



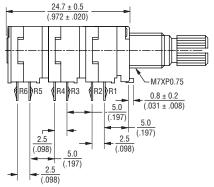




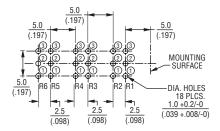
SCHEMATIC



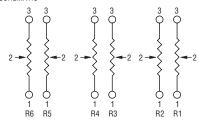




RECOMMENDED PCB LAYOUT

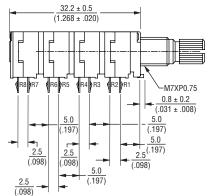


SCHEMATIC

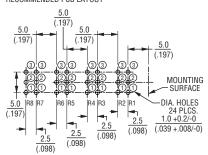


DIMENSIONS: $\frac{MM}{(INCHES)}$

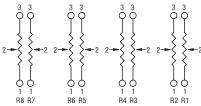
PTD908



RECOMMENDED PCB LAYOUT



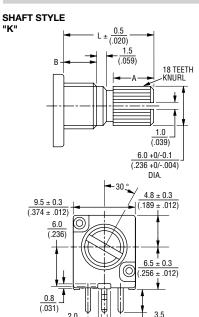
SCHEMATIC



PTD90 Series - 9 mm Multi-Ganged Potentiometer

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Product Dimensions



(.197) SHAFT SHOWN IN CCW POSITION

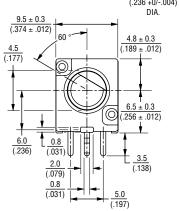
(.138)

(.079)

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

MM DIMENSIONS: (INCHES)

SHAFT STYLE $L \pm \frac{0.5}{(.020)}$ 4.5 (.177) 6.0 +0/-0.1 (.236 +0/-.004) 9.5 ± 0.3 $\overline{(.374 \pm .012)}$ 4.8 ± 0.3 $(.189 \pm .012)$ (.177)

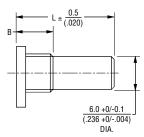


SHAFT SHOWN IN CCW POSITION

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	L	(.591)	(.787)	(.984)	(1.181)
F 7 12 12 12 12 12 12 (.472)	В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)	10 (.394)
	F	<u>7</u> (.276)	<u>12</u> (.472)		<u>12</u> (.472)

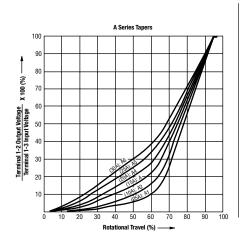
B Series Tapers



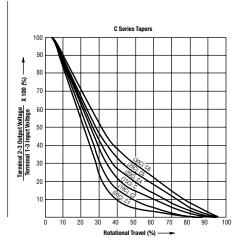


L	15 (.591)	<u>20</u> (.787)	<u>25</u> (.984)	30 (1.181)
В	<u>5</u> (.197)	<u>7</u> (.276)	10 (.394)	10 (.394)

Tapers



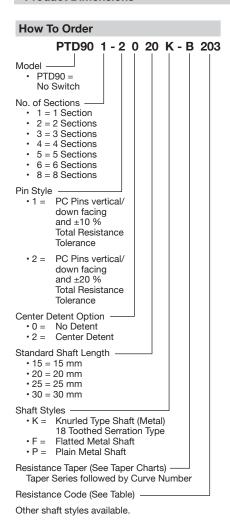
PTD901 Standard: Linear taper "B" represents (0B):B0 in taper chart. PTD902 & Above Sections: Linear taper "B" represents (3B):B3 in taper chart. 80 X100 (%) 70 Terminal 1-2 Output Voltage Terminal 1-3 Input Voltage 40 30 20 60 70 80



Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

al Travel (%)

Product Dimensions



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