

Features

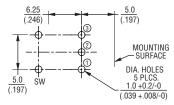
- Carbon element
- Ganging up to 8 sections available
- Knurled and flatted shaft styles
- Audio taper option
- Tracking error within 3 dB
- RoHS compliant*

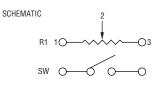
PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

Product Dimensions

PTR901 13.4 ± 0.5 (.528 ± .020) M7XP0.75 SW 0.8 ± 0.2 (.014 ± .007) 0.7 (.028) 6.25 (.040)

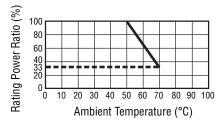
RECOMMENDED PCB LAYOUT





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

Derating Curve





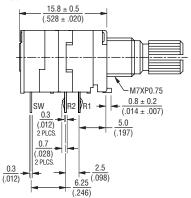
WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

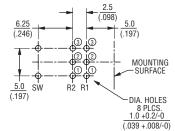
**Devices are tested using standard noise reduction filters. For optimum performance, designers should use noise reduction filters in their circuits.

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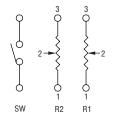
PTR902



RECOMMENDED PCB LAYOUT



SCHEMATIC



Standard Resistance Table

Resistance (Ohms)	Resistance Code	
1,000 2,000 5,000 10,000 20,000 50,000 100,000 200,000 500,000 1,000,000	102 202 502 103 203 503 104 204 504 105	



CAUTION

Do not store product in high temperature and humidity, direct sunlight and/or places where corrosive gases may be generated. Please use product within 6 months from the date of delivery and promptly after unpacking.

Additional Information

Click these links for more information:











PRODUCT SELECTOR

LIBRARY

<u>NICAL INVENTORY S</u> RARY

SAMPLES C

CONTACT

Electrical Characteristics

Standard Resistance Range		
1 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 Taper 0.05 watts		
Audio Taper 0.025 watts		
Noise100 mV max.		
Insulation Resistance @ 250 VDC		
100 M ohms		
Dielectric Withstanding Voltage 300 VAC		
End Resistance 20 ohms max.		
Tracking Error (-40 dB to 0 dB) ±3 dB		
• ,		

Environmental Characteristics

Operating Temperature Range
10 °C to +50 °C
Storage Temperature Range
20 °C to +70 °C
Storage Humidity Range 70 % RH max
Rotational Life15,000 cycles
IP RatingIP 40
•

Switch Characteristics

Contact Resistance 50	milliohm	is max	
Rated Power	3 A @ 1	6 VDC)
Detent Torque	400 g-ci	m max	
Switch Activation Angle	50	° max	

Mechanical Characteristics

Mechanical Angle	300 ° ±10 °
Running Torque	.10 to 250 g-cm
Stop Strength	4.0 kg-cm
Shaft Push/Pull Strength	5.0 kgf min.
Shaft Wobble 0.6 x L/2	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 350 °C max. for 3 seconds

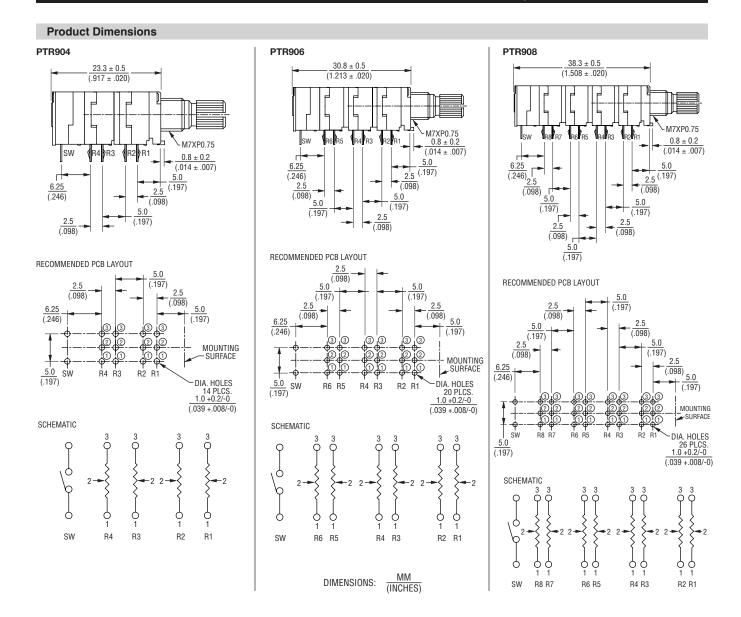
Wave Soldering
......96.5 Sn/3.0 Ag/0.5 Cu solder
with no-clean flux
260 °C ±5 °C for 3 ±1 seconds
Wash Process..... Not recommended
Mounting HardwareOne flat washer
and one mounting nut supplied
per potentiometer

Applications

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

PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

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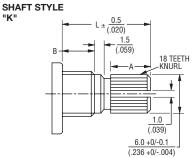
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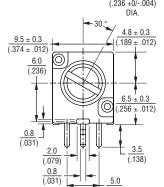
www.bourns.com

PTR90 Series - 9 mm Multi-Ganged Potentiometer w/Rotary Switch

BOURNS®

Product Dimensions

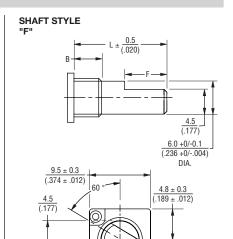




L	15	20	25
	(.591)	(.787)	(.984)
В	<u>5</u>	7	10
	(.197)	(.276)	(.394)
А	(.236)	10 (.394)	12 (.472)

SHAFT SHOWN IN CCW POSITION

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



6.0 (.236)	2.0 (.079) 0.8 (.031) SHAFT SHOWN]	3.5 138) ON
L	15	20	25

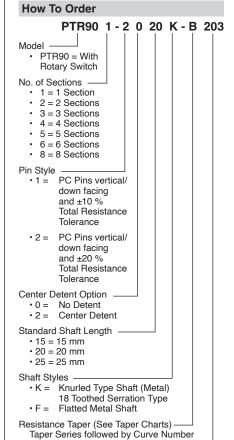
 6.5 ± 0.3

(.256 ± .012)

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

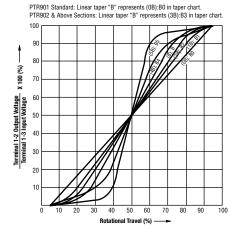
DIMENSIONS: $\frac{MM}{(INCHES)}$

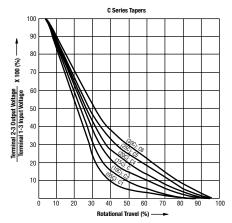
B Series Tapers



Resistance Code (See Table) Other shaft styles available.

Tapers





REV. 04/24

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