

Features

- Flatted plastic shaft option
- Horizontal & vertical mount option
- Dual-potentiometer
- Center tap option
- Audio & linear tapers
- PC pin layout for board mount
- RoHS compliant*

PRS14R - 14 mm Rotary Plastic Shaft Dual-Potentiometer

Additional Information

Click these links for more information:



Electrical Characteristics

Taper..... Audio, Linear
 Standard Resistance ... 5k ohms to 500k ohms
 Standard Resistance Tolerance..... ±20 %
 Residual Resistance..... 0.6 % max.
 Insulation Resistance
 100 megohms minimum @ 250V DC
 Dielectric Withstanding Voltage
 Sea Level..... 300 V AC min.
 Tap Residual Resistance100 ohms
 Power Rating0.05 W
 Maximum Operating Voltage 50 V AC
 Sliding Noise..... 100 mV max.

Environmental Characteristics

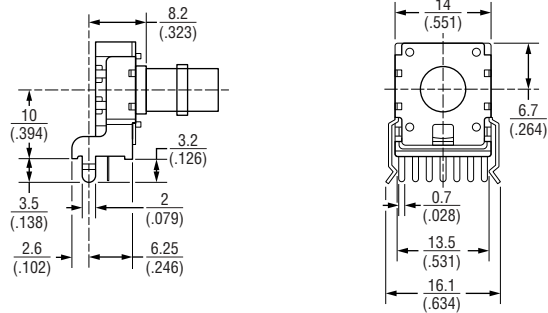
Operating Temperature..... -10 °C to +70 °C
 Storage Temperature..... -30 °C to +70 °C
 Soldering Condition
 Wave Soldering 260 °C for 5 s
 Manual Soldering..... 350 °C for 3 s
 IP Rating..... IP 40

Mechanical Characteristics

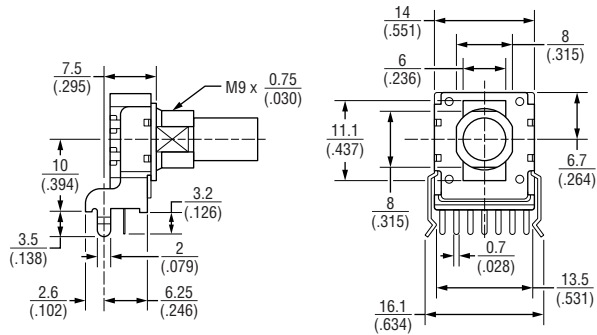
Mechanical Angle300 ° ± 5 ° max.
 Torque
 Starting & Running 30-200 gf-cm
 Detent 30-300 gf-cm
 Mounting..... 10 kgf-cm max.
 Stop Strength..... 5 kgf-cm min.
 Rotational Life..... 15,000 cycles min.
 Hardware...One flat washer and one hex nut
 supplied with threaded bushing versions

Product Dimensions

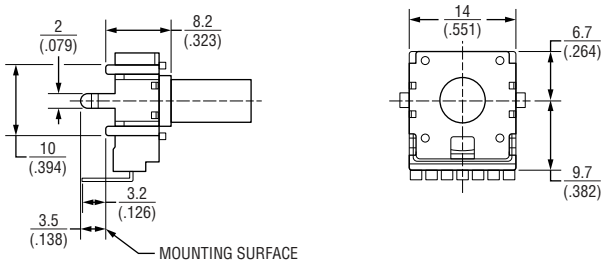
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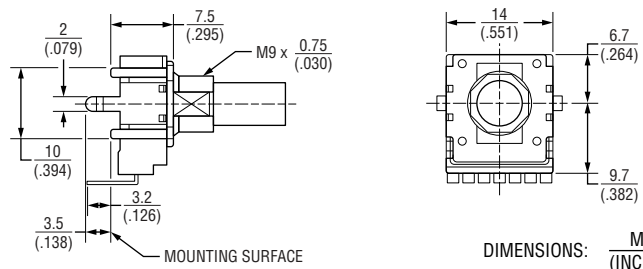
PRS14R-2xxxx-xxxxx



PRS14R-3xxxx-xxxxx



PRS14R-4xxxx-xxxxx



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. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

PRS14R - 12 mm Rotary Plastic Shaft Dual-Potentiometer

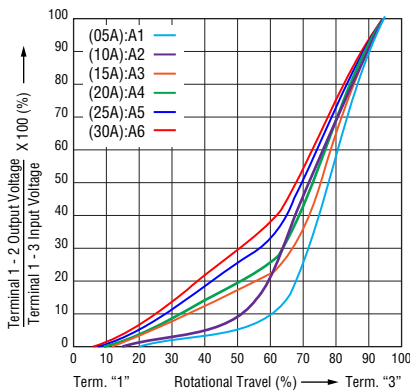
BOURNS®

Shaft & Bushing Dimensions

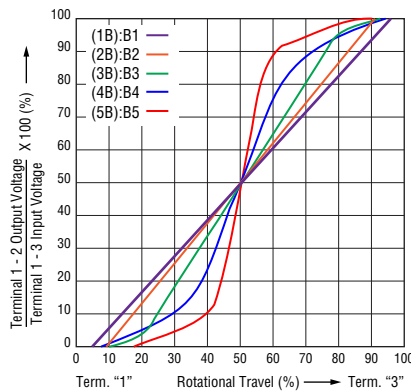
Without Bushing					With Bushing							
Horizontal		Vertical			Horizontal				Vertical			
LM1	$\frac{15}{(.591)}$	$\frac{20}{(.787)}$	$\frac{25}{(.984)}$	$\frac{30}{(1.181)}$	L1	$\frac{12.5}{(.492)}$	$\frac{15}{(.591)}$	$\frac{17.5}{(.689)}$	$\frac{20}{(.787)}$	$\frac{22.5}{(.886)}$	$\frac{25}{(.984)}$	$\frac{30}{(1.181)}$
Q1	$\frac{4.5}{(.177)}$	$\frac{7}{(.276)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	Q1	$\frac{7}{(.276)}$	$\frac{7}{(.276)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$	$\frac{12}{(.472)}$
-	-	-	-	-	LB	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$	$\frac{5}{(.197)}$

Tapers

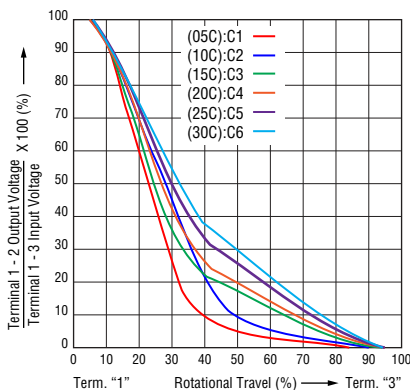
A Series



B Series



C Series



Resistance Table

Resistance (Ohms)	Resistance Code
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
250,000	254
500,000	504

How To Order

PRS14R - 40015 - 103 B1

Model _____

Orientation _____

- 1 = PC Pins vertical / side facing
- 2 = PC Pins vertical / side facing bushing
- 3 = PC Pins horizontal / rear facing
- 4 = PC Pins horizontal / rear facing bushing

Detent Configuration _____

- 0 = No Detent
- 1 = Center Detent

Center Tap _____

- 0 = No Tap
- 1 = Center Tap

Shaft Length _____

- 12 = 12 mm (bushing version only)
- 15 = 15 mm
- 17.5 = 17.5 mm (bushing version only)
- 20 = 20 mm
- 22 = 22.5 mm (bushing version only)
- 25 = 25 mm
- 30 = 30 mm

Resistance Code (see table) _____

Resistance Taper (see Taper charts) _____

Specifications are subject to change without notice.

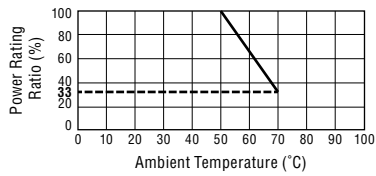
Users should verify actual device performance in their specific applications.

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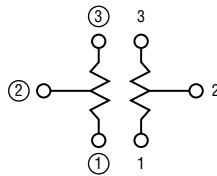
PRS14R - 12 mm Rotary Plastic Shaft Dual-Potentiometer



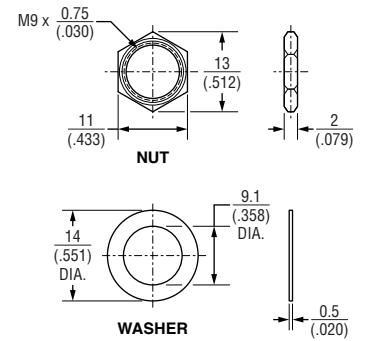
Derating Curve



Circuit



Hardware



Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

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