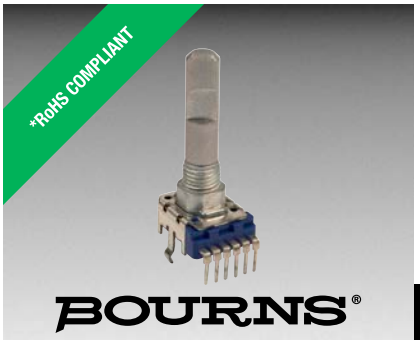


Features

- Various metal shaft options
- Horizontal & vertical mount option
- Dual-potentiometer
- Audio & linear tapers
- PC pin layout for board mount
- RoHS compliant*

PRS12R - 12 mm Rotary Metal Shaft Dual-Potentiometer

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Electrical Characteristics

Taper ..... Audio, Linear
Standard Resistance ... 5k ohms to 500k ohms
Standard Resistance Tolerance
R < 250k ohms ..... ±20 %
R ≥ 250k ohms..... ±30 %
Residual Resistance..... 0.6 % max.
Insulation Resistance
.....100 megohms minimum @ 250V DC
Dielectric Withstanding Voltage
Sea Level..... 300 V AC min.
Power Rating.....0.05 W
Maximum Operating Voltage
.....50 V AC / 10 V DC
Sliding Noise..... 100 mV max.

Environmental Characteristics

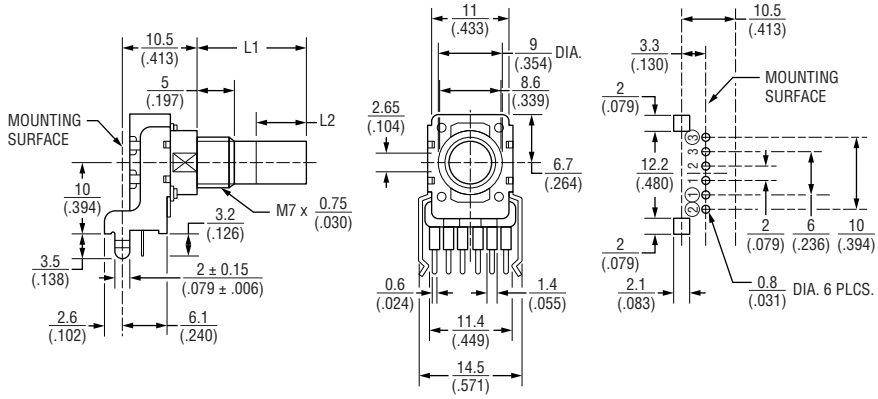
Operating Temperature.....-10 °C to +70 °C
Storage Temperature.....-40 °C to +70 °C
Soldering Condition
Wave Soldering ..... 260 °C for 5 s
Manual Soldering..... 350 °C for 3 s
IP Rating..... IP 40

Mechanical Characteristics

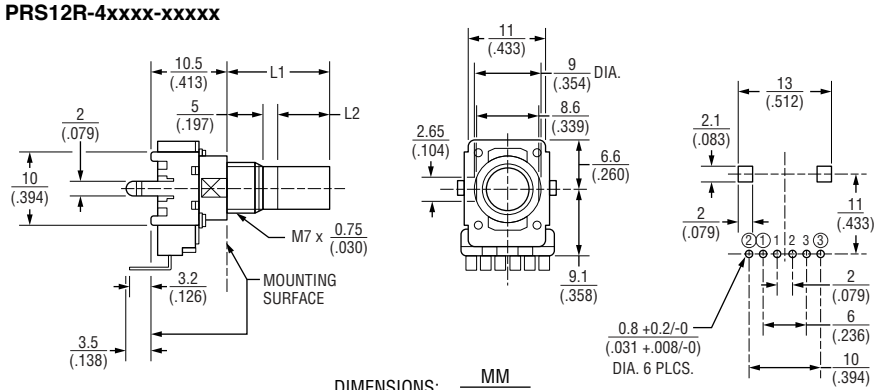
Mechanical Angle .....300 ° ± 5 ° max.
Torque
Starting & Running ..... 10-150 gf-cm
Detent..... 20-200 gf-cm
Mounting.....12 kgf-cm max.
Stop Strength.....3.5 kgf-cm min.
Rotational Life.....10,000 cycles min.
Hardware.....One flat washer and one hex nut supplied with threaded bushing versions

Product Dimensions

PRS12R-2xxxx-xxxxx



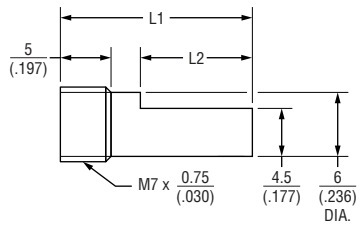
PRS12R-4xxxx-xxxxx



DIMENSIONS: MM / (INCHES)

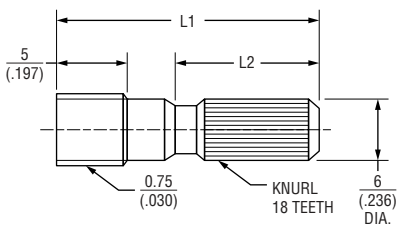
Shaft & Bushing Dimensions

FLAT SHAFT



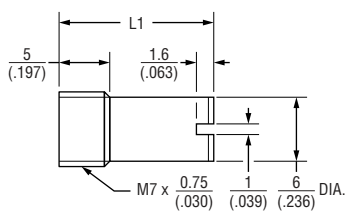
L1	15 (.591)	20 (.787)	25 (.984)
L2	7 (.276)	12 (.472)	12 (.472)

KNURLED SHAFT



L1	15 (.591)	20 (.787)	25 (.984)
L2	7 (.276)	11 (.433)	14 (.551)

SLOT SHAFT



L1	15 (.591)	20 (.787)	25 (.984)

DIMENSIONS: MM / (INCHES)

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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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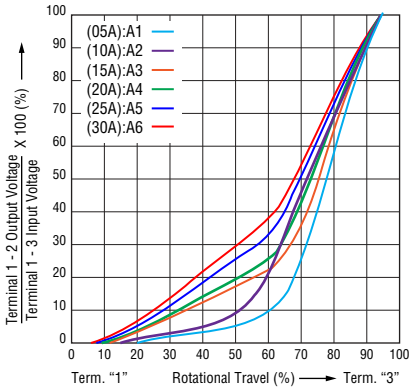
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PRS12R - 12 mm Rotary Metal Shaft Dual-Potentiometer

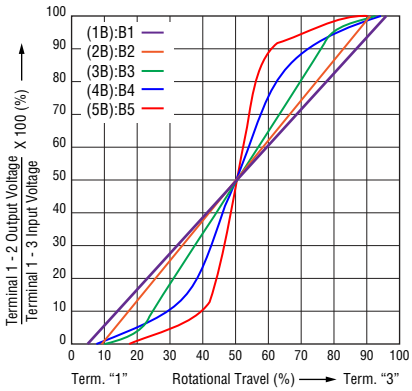
BOURNS®

Tapers

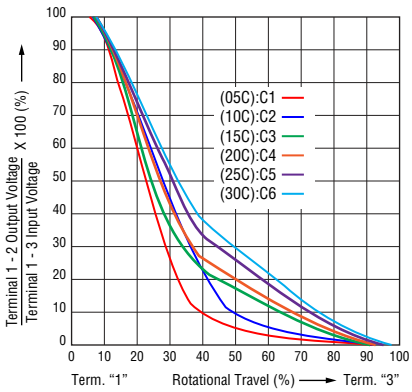
A Series



B Series



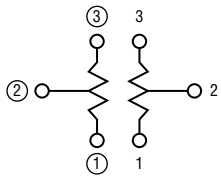
C Series



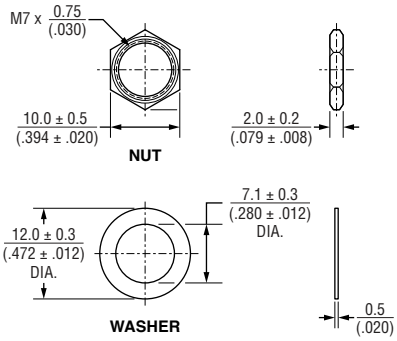
Resistance Table

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

Circuit



Hardware



How To Order

PRS12R - 4015 F - 103 B1

Model

Orientation
- 2 = PC Pins vertical / side facing
- 4 = PC Pins horizontal / rear facing

Detent Configuration
- 0 = No Detent
- 1 = Center Detent

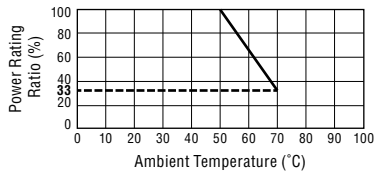
Shaft Length
- 15 = 15 mm
- 20 = 20 mm
- 25 = 25 mm

Shaft Style
- F = Flatted
- K = Knurled
- S = Slotted

Resistance Code (see table)

Resistance Taper (see Taper charts)

Derating Curve



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04/21

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