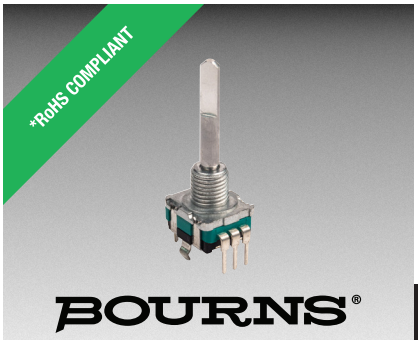


Features

- Flatted metal shaft option
- Horizontal & vertical mount option
- Audio & linear tapers
- PC pin layout for board mount
- Optional push momentary switch
- RoHS compliant*

PRS11R - 11 mm Rotary Metal Shaft Potentiometer

Electrical Characteristics

Taper ..... Audio, Linear
Standard Resistance ... 5k ohms to 250k ohms
Standard Resistance Tolerance
R < 250k ohms ..... ±20 %
R = 250k ohms ..... ±30 %
Residual Resistance ..... 0.4 % 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
.....50V AC / 30V DC
Sliding Noise ..... 100 mV max.

Environmental Characteristics

Operating Temperature Range
..... -20 °C to +70 °C (-4 °F to +158 °F)
Storage Temperature Range
..... -40 °C to +70 °C (-40 °F to +158 °F)
Soldering Condition
Wave Soldering ..... 260 °C for 3 s
Manual Soldering ..... 350 °C for 3 s
IP Rating ..... IP 40

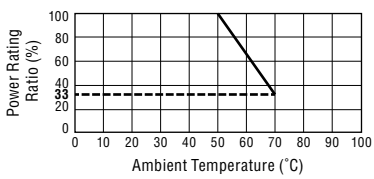
Mechanical Characteristics

Mechanical Angle .....300 ° ± 10 ° max.
Torque
Running ..... 20-250 gf-cm
(Starting torque ignored)
Mounting .....3 kgf-cm max.
Stop Strength .....3 kgf-cm min.
Rotational Life .....15,000 cycles min.
Switch Life .....20,000 cycles min.
Hardware .....One flat washer and one hex nut supplied with threaded bushing versions

Switch Characteristics

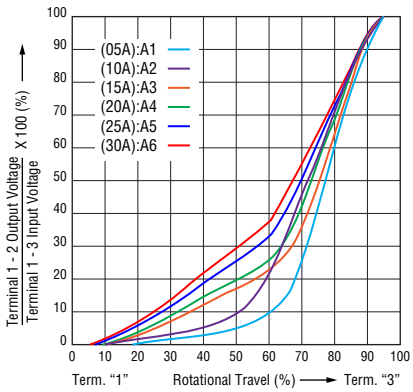
Switch Type .....Push ON Momentary SPST
Power Rating (Resistive Load)
.....10 mA at 5 V DC
Switch Travel ..... 0.5 ± 0.4 mm
Switch Actuation Force ..... 600 ± 300 gf
Contact Resistance .....100 mΩ max.

Derating Curve

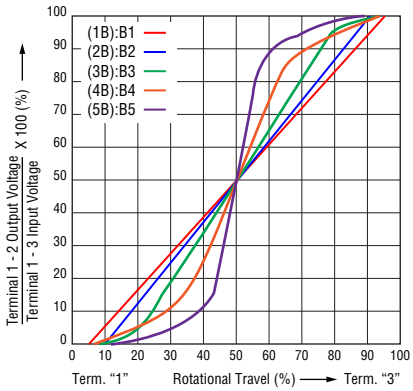


Tapers

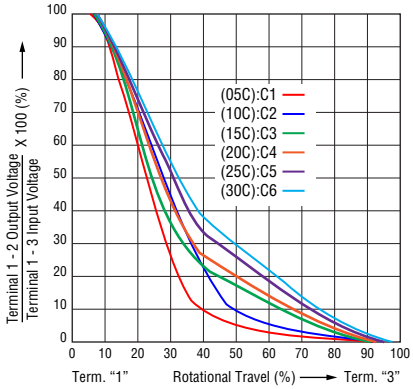
A Series



B Series



C Series



Additional Information

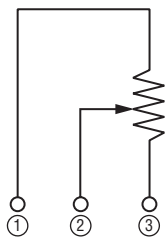
Click these links for more information:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

Tapers

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

Circuit



Switch Circuit



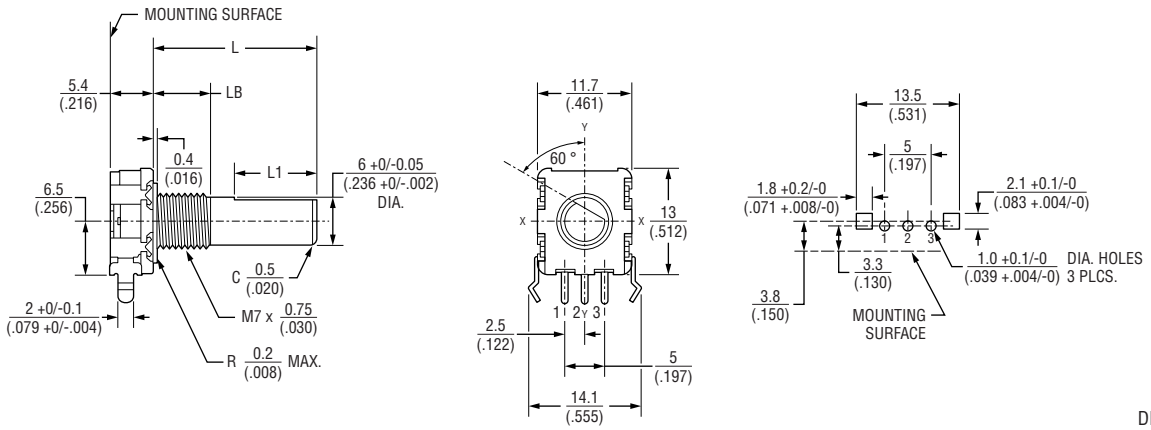
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

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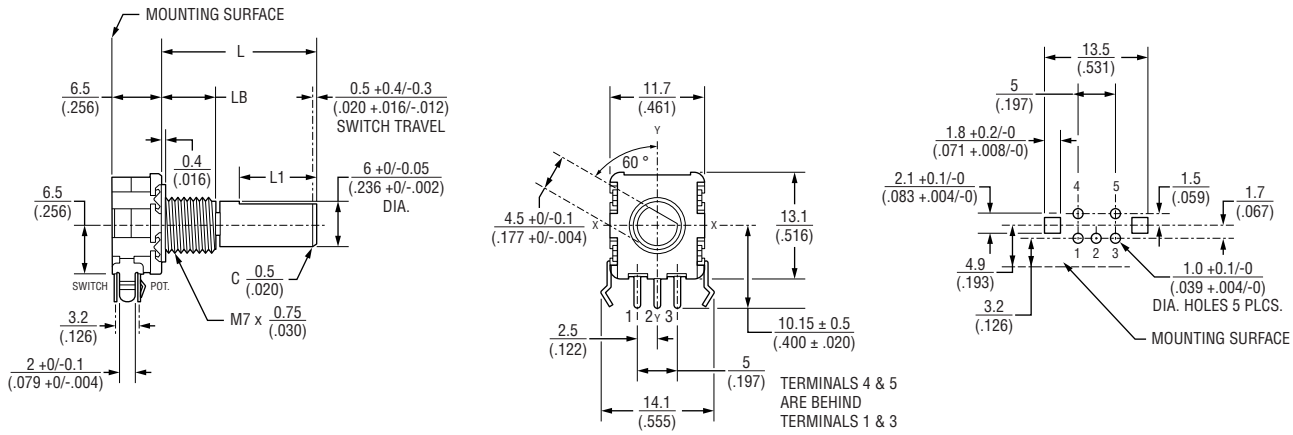
Product Dimensions

PRS11R-2xxF-Nxxxxx

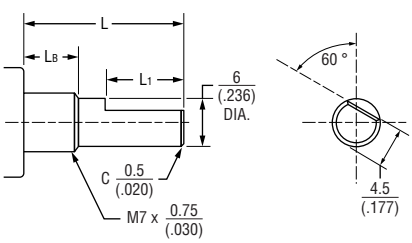


DIMENSIONS: MM / (INCHES)

PRS11R-2xxF-Sxxxxx



Shaft and Bushing Dimensions

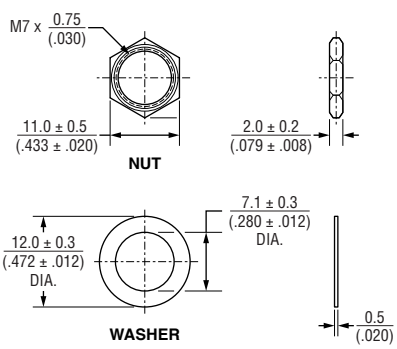


SHAFT SHOWN IN FULL C.C.W. POSITION

L	LB	L1
15 (.591)	7 (.276)	5 (.197)
20 (.787)	7 (.276)	10 (.394)
25 (.984)	7 (.276)	10 (.394)

DIMENSIONS: MM / (INCHES)

Hardware

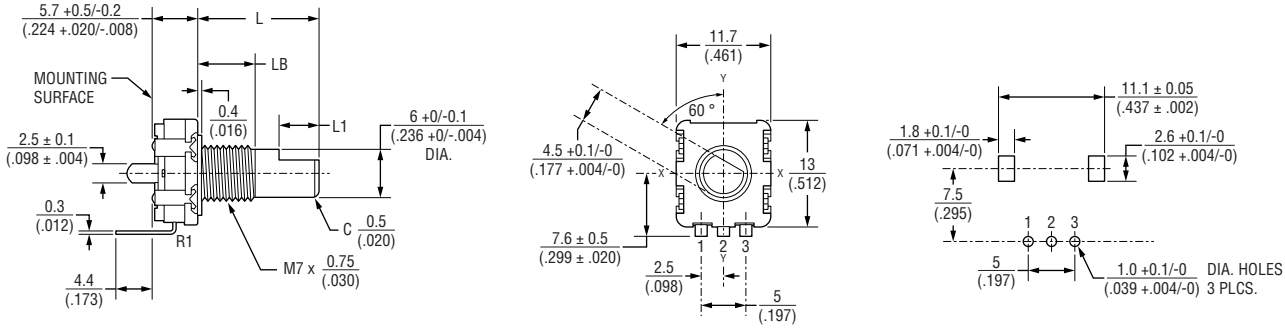


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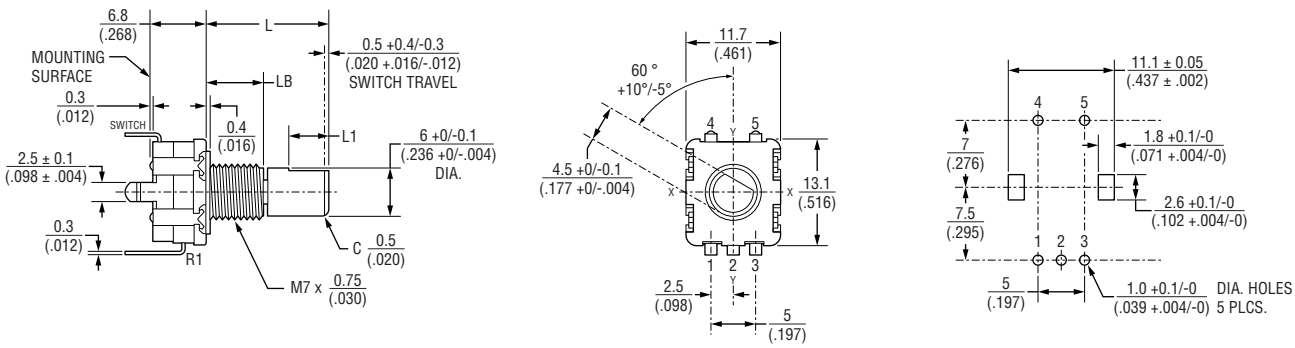
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Product Dimensions

PRS11R-4xxF-Nxxxxx



PRS11R-4xxF-Sxxxxx



DIMENSIONS: MM / (INCHES)

How To Order

PRS11R - 4 15 F - S103 B1

Model

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

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

Shaft Style
- F = Flatted

Switch Configuration
- N = No Switch S = Push Momentary Switch

Resistance Code (see table)

Resistance Taper (see Taper charts)

REV. 08/25

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