

Features

Tapers

- Flatted metal shaft option
- Horizontal & vertical mount option
- Audio & linear tapers
- PC pin layout for board mount
- 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		
Dielectric Withstanding Voltage		
Sea Level 300 V AC min.		
Power Rating0.05 W		
Maximum Operating Voltage		
Sliding Noise 100 mV max.		

Environmental Characteristics

Operating Temperature Range	
	-)
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 4	4

Mechanical Characteristics

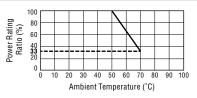
Mechanical Angle	300 ° ± 10 ° max.		
Torque			
Running	20-250 gf-cm		
(Starting torque ignored)			
Mounting	3 kgf-cm max.		
Stop Strength	3 kgf-cm min.		
Rotational Life	15,000 cycles min.		
Switch Life	20,000 cycles min.		
HardwareOne flat washer and one hex			
nut supplied with threaded bushing versions			

Switch Characteristics

Switch Type	Push ON Momentary SPST
Power Rating (Resistive Load)

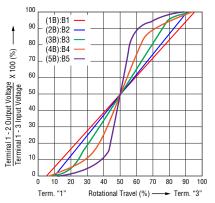
0.5 ± 0.4 mm
600 ± 300 gf
100 mΩ max.

Derating Curve

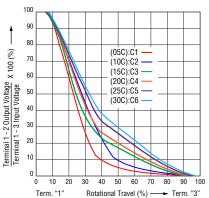


A Series 100 90 (05A):A1 (10A):A2 80 (15A):A3 X 100 (%) (20A):A4 70 (25A):A5 60 (30A):A6 Terminal 1 - 2 Output Voltage Terminal 1 - 3 Input Voltage 50 40 30 20 10 0 0 10 20 30 40 50 60 70 80 90 100 🗕 Term. "3" Rotational Travel (%) -Term. "1"

B Series



C Series



Additional Information

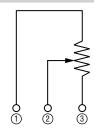
Click these links for more information:



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



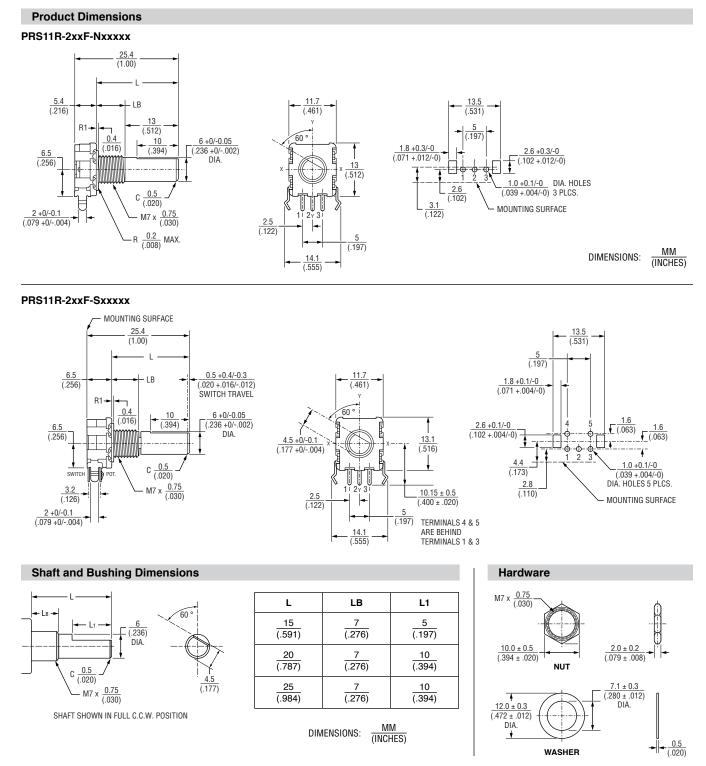


*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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PRS11R - 11 mm Rotary Shaft Potentiometer

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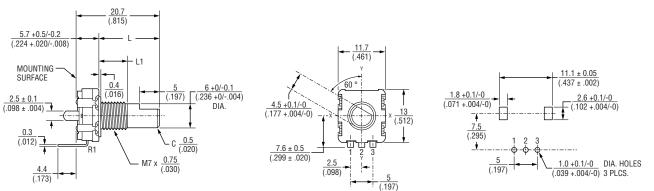
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PRS11R - 11 mm Rotary Shaft Potentiometer

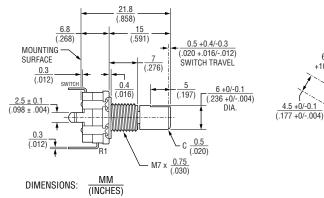
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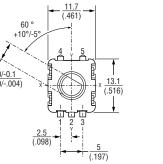
Product Dimensions

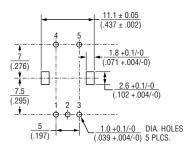
PRS11R-4xxF-Nxxxxx



PRS11R-4xxF-Sxxxxx







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	
Resistance Code (see table)	
Resistance Taper (see Taper charts)	

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