BOURNS®

PST155 Series

15 mm Incremental Potentiometers



*RoHS COMPLIANT

Features

- Compact design
- High reliability
- Mounting hole pin
- RoHS compliant*

Applications

- Automation equipment
- Motion control systems
- Robotics
- HVAC controls
- Industrial controls
- Commercial equipment

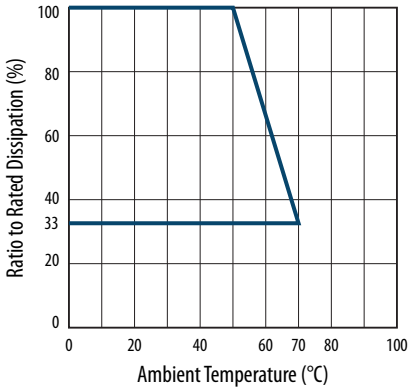
Sustainability

- Small size reduces material use
- High pallet density for lower CO_2
- Eco-logistics-friendly packing
- Recyclable ESD-safe packaging
- High efficiency, low power loss

Product Overview

Bourns® PST155 is a robust hollow-shaft rotary potentiometer series designed to provide accurate position feedback and dependable long-term performance in demanding operating environments. The 15 mm hollow-shaft configuration simplifies integration with larger rotary shafts while reducing mechanical complexity and assembly effort. Engineered for extended operational life, the PST155 Series delivers stable electrical performance and consistent output throughout its service life. Combining durable construction with reliable operation, the PST155 Series is well suited for applications requiring long-term performance, simplified mechanical integration, and dependable position sensing.

Derating Curve of Rated Dissipation



Electrical Characteristics

Contact Rating	10 mA @ 5 VDC
Insulation Resistance	100 MΩ min. @ 200 VDC
Dielectric Strength - Sea Level	50 VAC 1 min.
Linear Taper B	Linear
Rated Power	0.25 W
Rated Voltage	300 VAC – 150 VDC
Standard Resistance Range	1 KΩ to 5 MΩ
Total Resistance Tolerance	
1 KΩ to 1 MΩ	±20 %
≥1 MΩ to 5 MΩ	±30 %
Electrical Travel	235 ° ±20 °

Environmental Characteristics

Operating Temperature	-10 °C to +70 °C
Storage Temperature	-25 °C to +80 °C
Soldering Condition	
Dip Soldering	260 °C ±5 °C for 3 s
Manual Soldering	350 °C ±5 °C for 3 s
IP Rating	IP 40

Mechanical Characteristics

Mechanical Angle	265 ° ±10 °
Rotational Torque	10 to 100 gf/cm
Rotational Speed	60 ° / sec.
Rotation Stopper Strength	1 Kgf/cm
Push – Pull Strength of Shaft	1.5 Kgf
Shaft Play in Axial Direction	0.5 K gf max.
Rotational Life	10,000 cycles

Product Characteristics

Weight	1.3 grams

Contact Information

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*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.

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PST155 Series

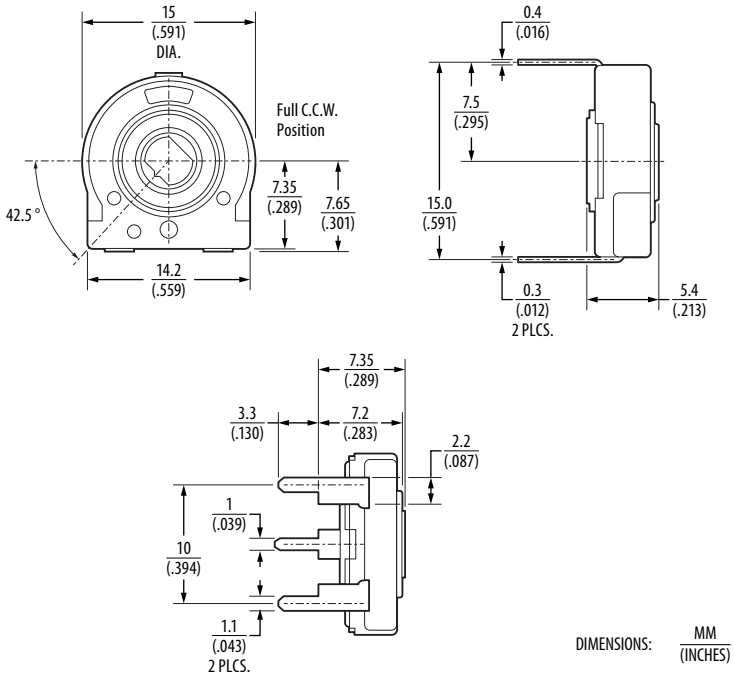
15 mm Incremental Potentiometers



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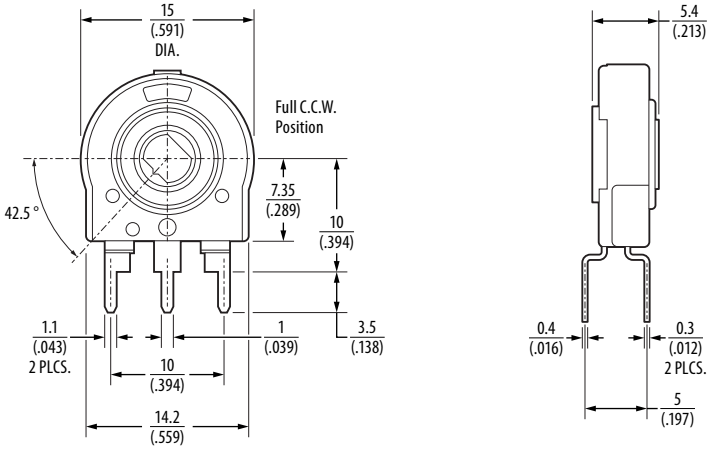
Product Dimensions

PST155H Horizontal PC Board Mounting Hole Pin



DIMENSIONS: MM (INCHES)

PST155V Vertical PC Board Mounting Hole Pin

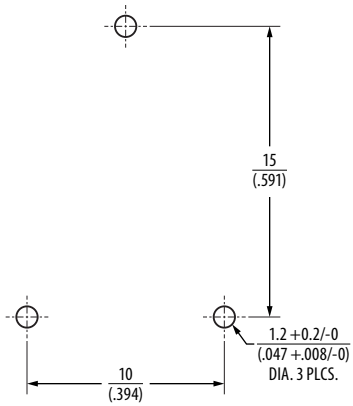


DIMENSIONS: MM (INCHES)

Tolerances Unless Otherwise Specified	
≤10	±0.3
10 ~ 100	±0.5
≥100	±1.5
Angle	±5 °

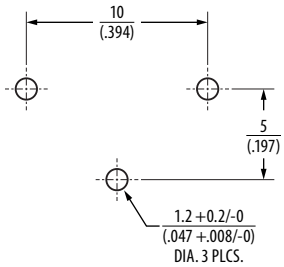
Mounting Hole Details

PST155H



DIMENSIONS: MM (INCHES)

PST155V



DIMENSIONS: MM (INCHES)

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How to Order

PST155 - 1 01 E - N 503

Model Series

15 mm Incremental Potentiometer
- 1 = Horizontal
- 2 = Vertical

Key Shaft
- 01 = Hole

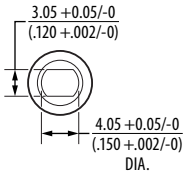
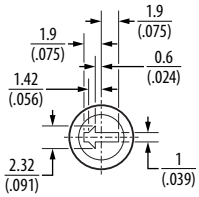
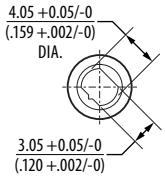
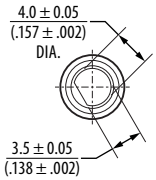
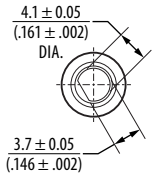
Shaft Style
- E = 3.5 D - Key Shaft
- F = 3.7 D - Key Shaft
- G = 4.05 Flatted Key Shaft
- J = 1.9 Arrow Key Shaft
- T1 = 4.5 Flatted Key Shaft

Switch Configuration
- N = No Switch

Resistance
- Resistance Code

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

Hole Style

Style G	Style J	Style T1	Style E	Style F
				

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